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KA750

B-TC-KA750- 0-2

## FIELD MAINTENANCE PRINT SET

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## **TABLE OF CONTENTS**

B-DD-L0002-0 DPM E-UA-L0002-0 DPM K-PL-LOO()2-0-DBP DPM PARTS LIST E-MD-5013555-0-0 DRILL AND ETCH DRAWING E-EC-5013555-0-0 ETCH CUT DRAWING D-CS-L0002-0-1 thru 25 DPM CIRCUIT SCHEMATIC D-8D-L0002-0-26 DPM BLOCK DIAGRAM D-BD-L0002-0-27 ALPCTL FUNCTION CHART B-DD-L0()03-() MIC E-UA-LC003-0-0 MIC K-PL-L0003-0-DBP MIC PARTS LIST DRILL AND ETCH DRAWING E-MD-5013693-0-0 ETCH CUT DRAWING E-EC-5013693-0-0 MIC CIRCUIT SCHEMATIC D-CS-L0003-0-1 thru 22 MIC BLOCK DIAGRAM D-BD-L0003-0-23 B-DD-L0004-0 E-UA-L0004-0-0 UBI PARTS LIST K-PL-L0004-0-DBP DRILL AND ETCH DRAWING E-MD-5013827-0-0 ETCH CUT DRAWING E-EC-5013827-0-0 UBI CIRCUIT SCHEMATIC D-CS-L0004-0-1 thru 19 UNIBUS INTERFACE D-BD-L0004-0-20 UBI MICPOCODE LISTING K-MP-L0004-0-21 B-DD-L0005-0 CCS E-UA-L0005-0-0 CCS K-PL-L0005-0-DBP CCS PARTS LIST DRILL AND ETCH DRAWING E-MD-5013516-0-0 ETCH CUT DRAWING E-EC-5013516-0-0 CCS CIRCUIT SCHEMATIC D-CS-L0005-0-1 thru 16 B-DD-M9313-U UET UET D-UA-M9313-0-0 UET PARTS LIST K-PL-M9313-0-DBP D-MD-5013847-0-0 DRILL AND ETCH DRAWING D-CS-M9313-0-1 thru 8 UET CIRCUIT SCHEMATIC 11/750 CONTROL PANEL B-DD-5413795-0 11/750 CONTROL PANEL E-UA-5413795-0-0 K-PL-5413795-0-DBP 11/750 CONTROL PANEL DRILL AND ETCH DRAWING E-MD-5013794-U-0 ETCH CUT DRAWING E-EC-5013794-0-0 11/750 CONTROL PANEL D-CS-5413795-0-1

UNIT VARIATIONS
COVERED BY THIS
PRINT SET

KA750

Field Maintenance Print Set

MPOIO24

Digital Equipment

Corporation

KA750

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## **FIELD MAINTENANCE PRINT SET**

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## **TABLE OF CONTENTS**

D-UA-M9202-0-0 CABLE, UNIBUS (JUMPER)

\*\*R-PL-G727-0-0 GRANT CONTINUITY B-CS-G727-0-1 GRANT CONTINUITY G727

UNIT VARIATIONS
COVERED BY THIS
PRINT SET

XA750

Field Maintenance Print Set

MP01024

Digital Equipment Corporation

KA750

11750 CPU

DATE USED ON OPTION/MODEL KA750 PRINT SET DATE CHG. NO. 9-17-8 PROJ. ENG. DATE REV. TC NUMBER KA750-0-2 DATE Α DATE FIELD SERV. SHEET 20F\_2 TIM

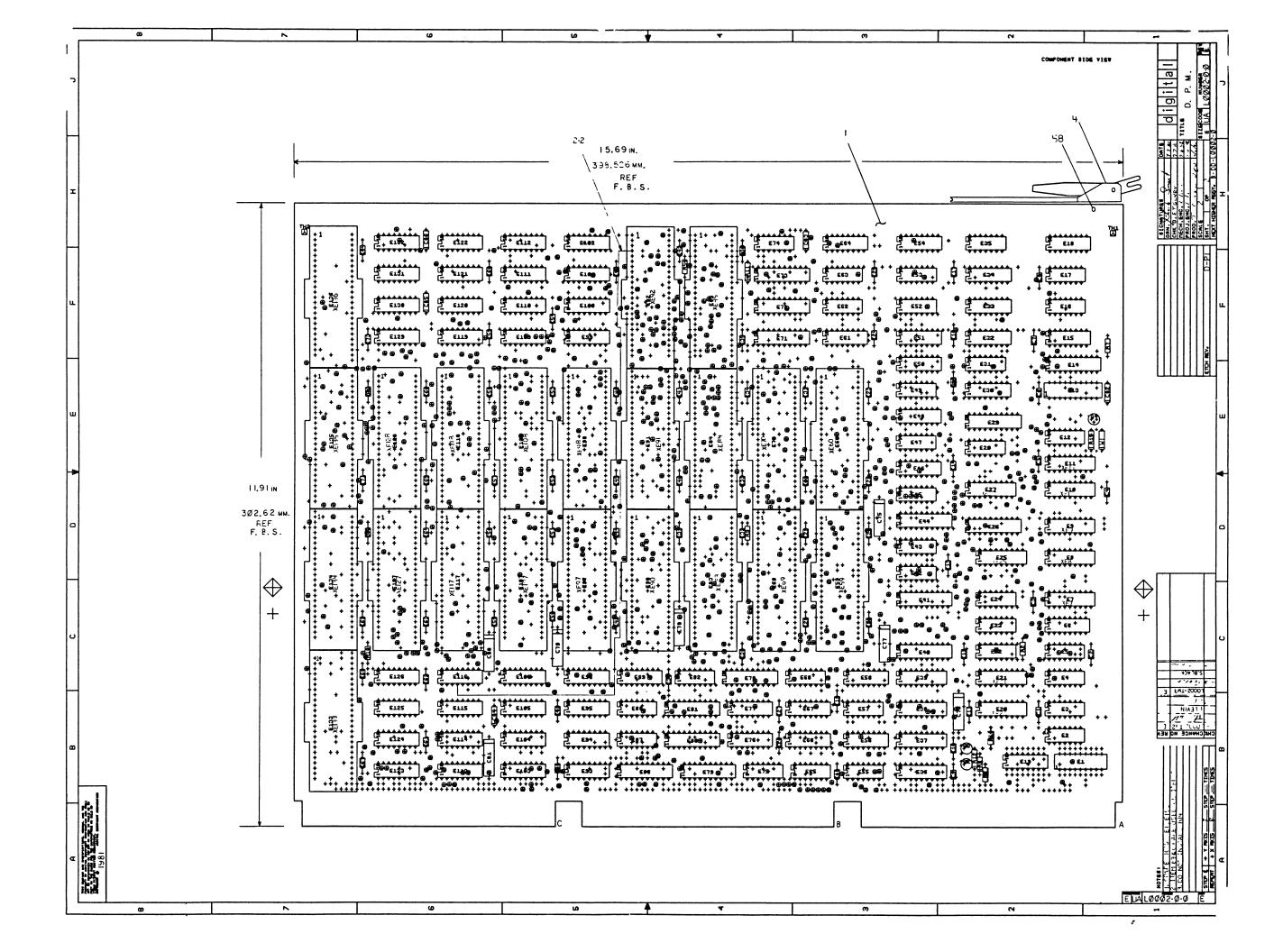
REV. NUMBER SIZE | CODE DRAWING NO. PART NO. DESCRIPTION **REVISIONS** MODULE REVISION BCDEE CDEF 2 DPM DRAWING DIRECTORY B-DD-L0002-0 DEE 2 C DPM UNIT ASSEMBLY E-UA-L0002-0-0 2 DDD K-PL-L0002-0-DBP DPM PARTS LIST 6 DPM DRILL & ETCH DRAWINGS E-MD-5013555-0-0 C DP1OP1DP1 5013555 ETCHED BOARD DPM PC DESIGN DATA BASE IDEA K-PC-L0002-0-DBI DDE C K-CS-L0002-0-DBS DPM DESIGN DATA BASE SUDS 3 DPM ETCH CUT DRAWINGS E-EC-5013555-0-0 DATA PATH (03:00) D-CS-L0002-0-1 |B|B|BВ В 1 DATA PATH (07:04) D-CS-L0002-0-2 В BBBB D-CS-L0002-0-3 DATA PATH (11:08) В В | B | B DATA PATH (15:12) D-CS-L0002-0-4 BBBB В DATA PATH (19:16) D-CS-L0002-0-5 BB DATA PATH (23:20) D-CS-L0002-0-6 DATA PATH (27:24) D-CS-L0002-0-7 В DATA PATH (31:28) B B BD-CS-L0002-0-8 В DATA ROTATOR LOGIC D-CS-L0002-0-9 chololo ALK, CLA, & CCC D-CS-L0002-0-10 В SCRATCH PAD CONTROL В 1 D-CS-L0002-0-11 BB CS LATCH, LITREG D-CS-L0002-0-12 BBB HI CONTROL STORE ADD D-CS-L0002-0-13 BBB D-CS-L0002-0-14 LO CONTROL STORE ADD D-CS-L0002-0-15 LOW BRANCH BITS cl D D-CS-L0002-0-16 BRANCH BIT 00 **NOTES:** REV. - 의 교 교 \* CONTROL SOURCE IS THE SUDS DATA BASE NO CONTROLLED PAPER ORIGINALS EXIST REVISIONS CHG NO. TW001 TW002
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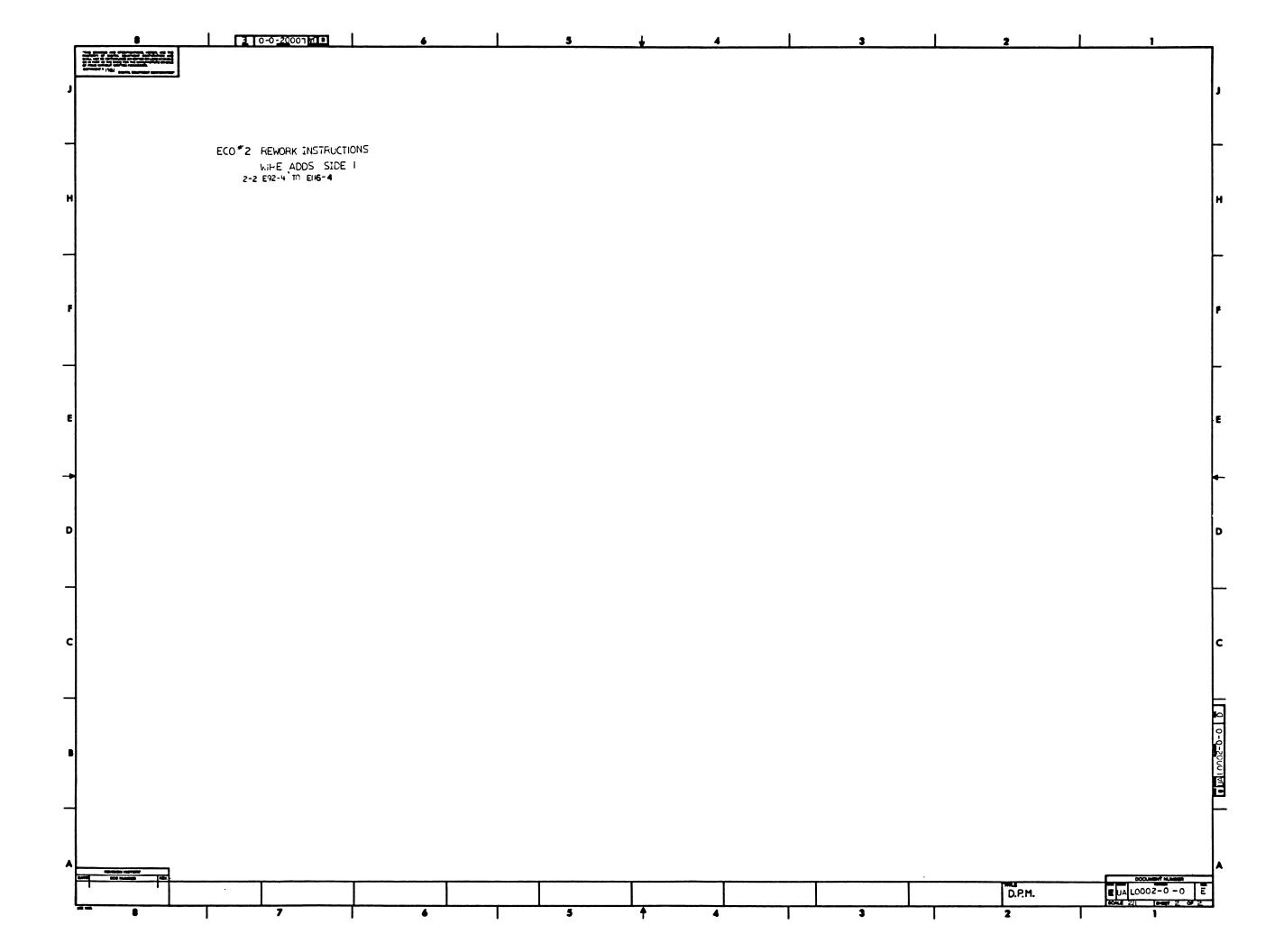
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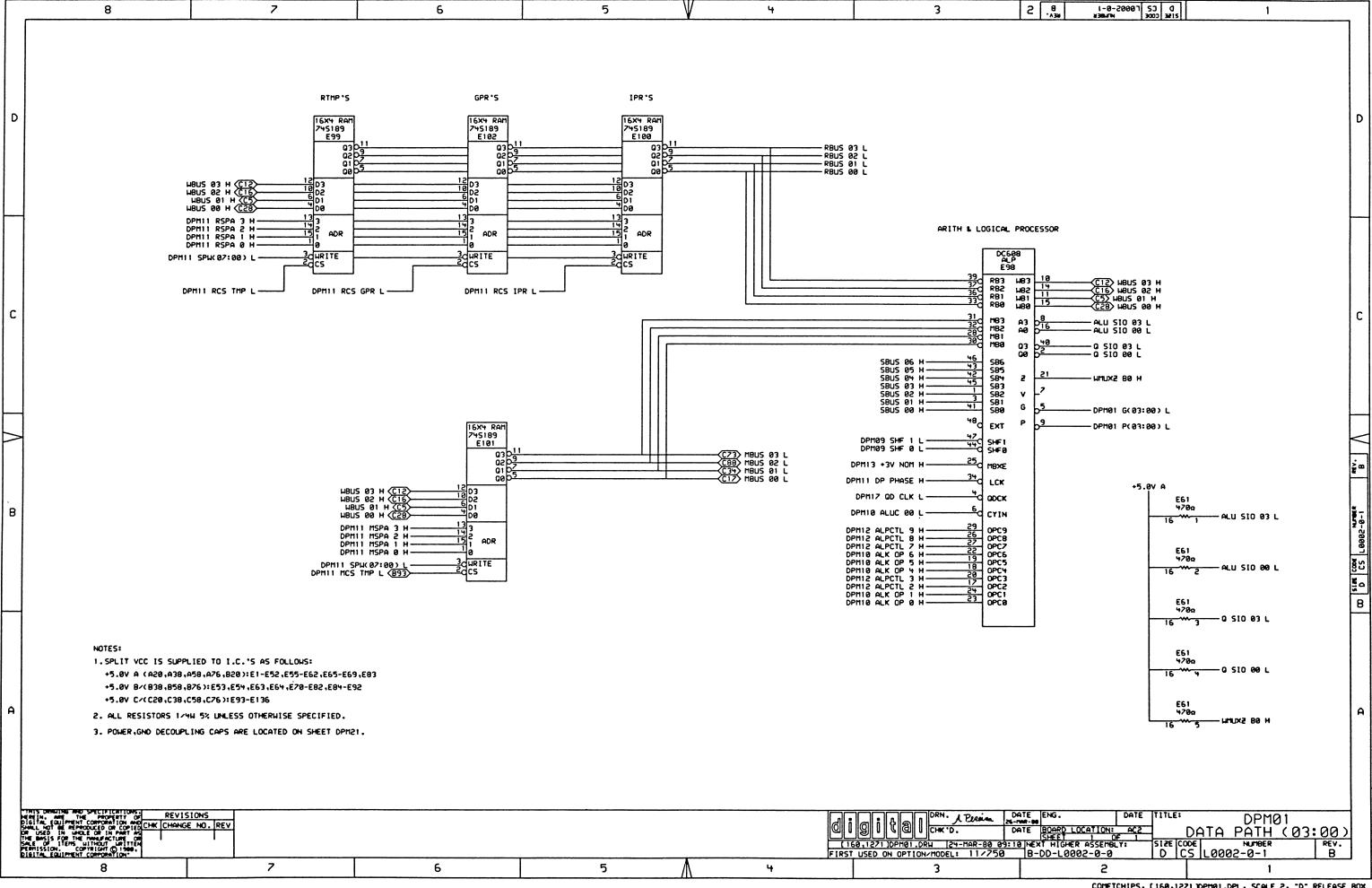


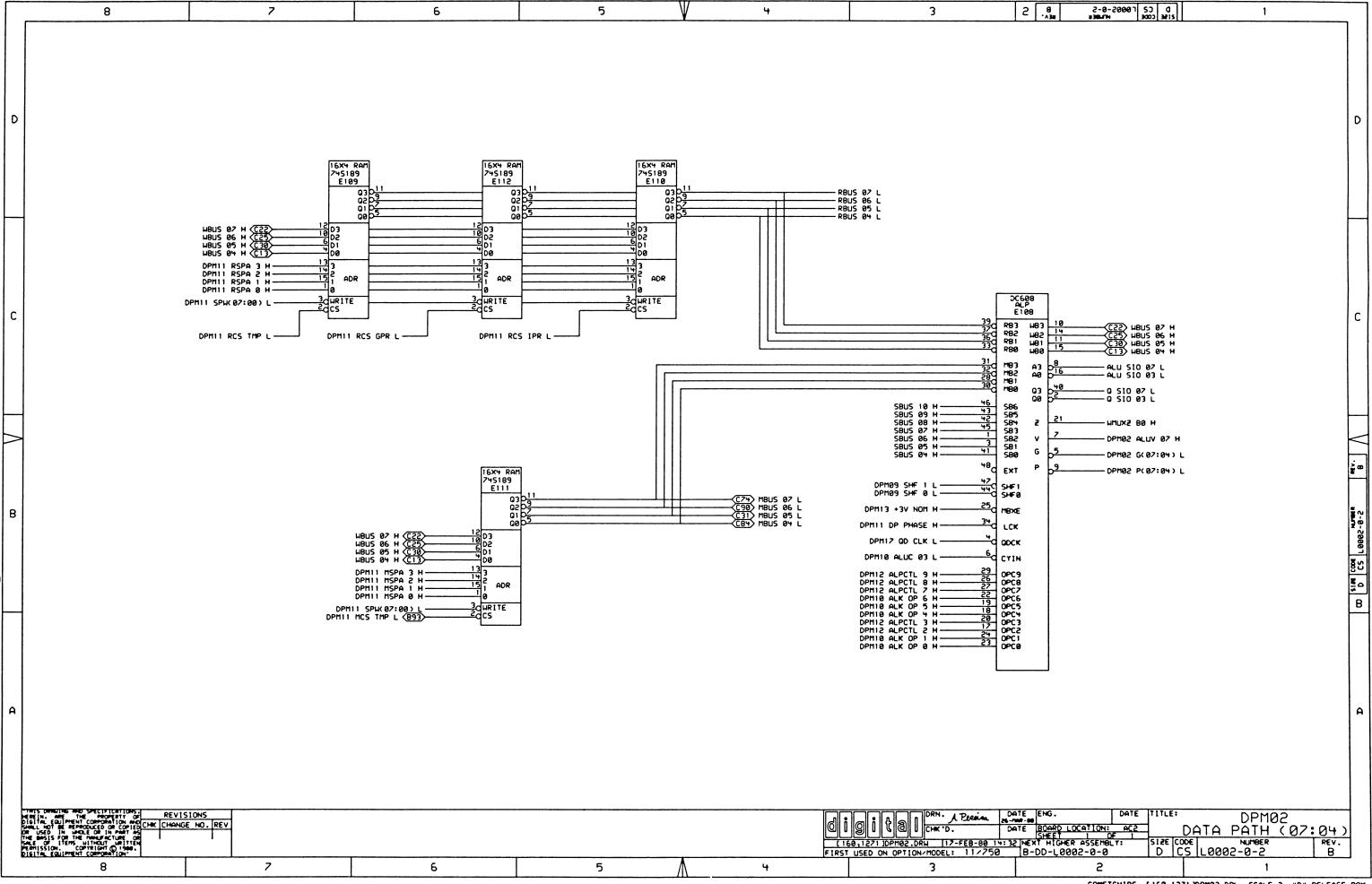


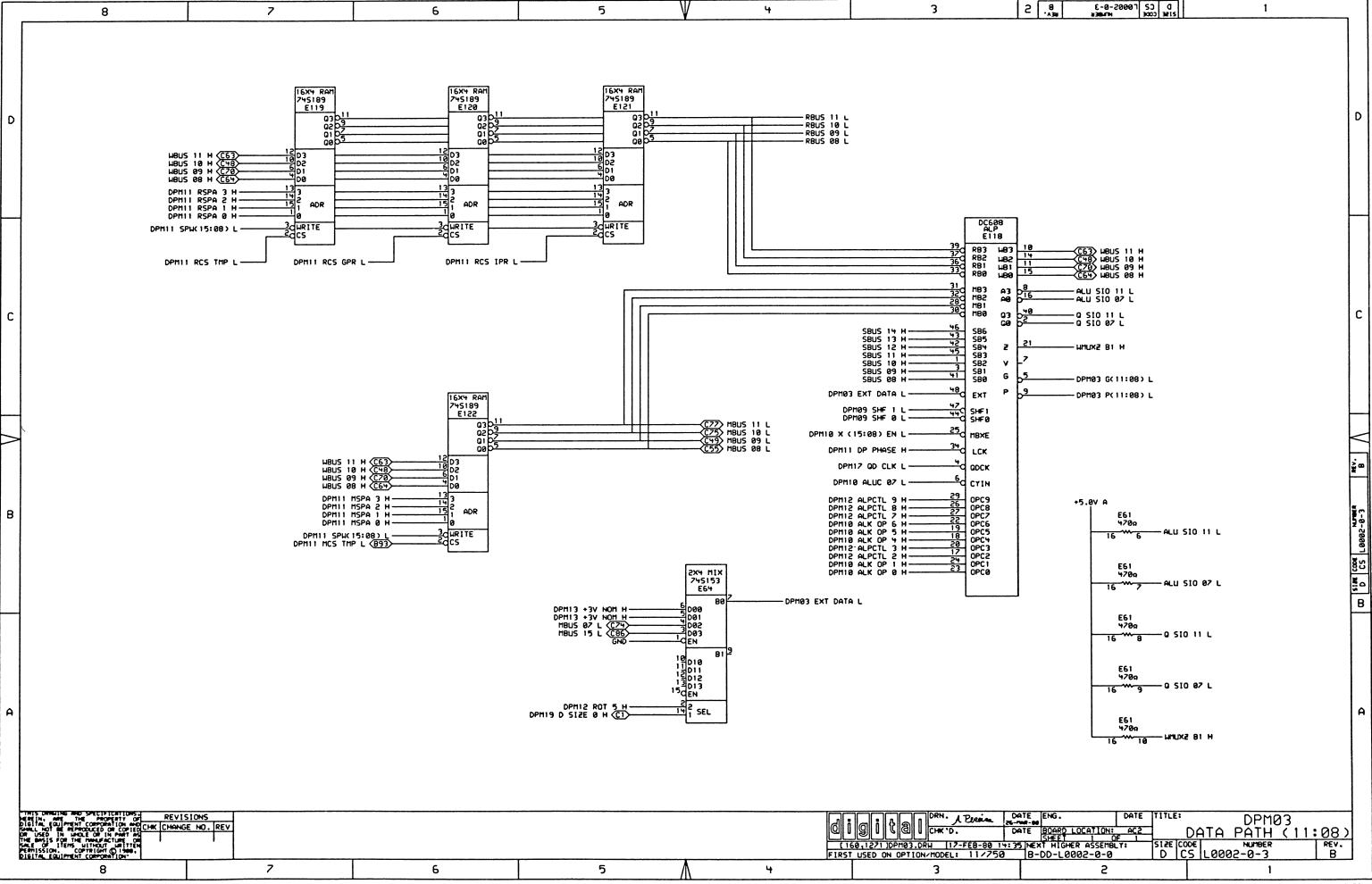
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LINE	ITEM DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATIO	REFERENCE DESIGNATOR
27	27	1912661-00	74S189 MEMORY READ/WRITE	32 CONT	E93-E96,E99-E106,E109-E116, E119-E126,E129-E132
.28	28	1912746-00	DEC 74837 NAND GATE-QUAD 21N	2	E53,E65
29	29	1913462-00	748240 OCTAL BUFFER, INVERTI	1	E40
30	30	1913493-00	74S241 OCTAL RUFFER, TRI-STA	1	E41
31	31	1913671-00	749374 FF-D OCTAL TRISTATE	8	E14,E26,E29,E44,E79-E81,E86
32	32	1913839-00	74LS165 SHIFT REG.,8BIT	2	E50,E58
33	33	1914085-00	748260 NOR GATE-DUAL, POS	1	E23
34 35	34 35	1914214-00	LS374 FF-D OCTAL EDGE TRIG DC 620A BIFOLAR, LS, 400-GATE	5	E13,E71-E73,E78
36	36	1914694-00 1914682-00		1 8	E92
20	30	1714662-00	DC 408B BIFOLAR, LS, 400-GATE		E97,E98,E107,E108,E117,E118,
37	37	1914684-00	DC 610B BIFOLAR, LS, 400-GATE	1	E127,E128 E70
38	38	1914686-00	DC 612B BIPOLAR, LS, 400-GATE	1	E91
39	39	1914687-00	DC 613B BIPOLAR, LS, 400-GATE	4	E133-E136
40	40	1914688-00	DC 614C BIPOLAR, LS, 400-GATE	i	E84
41	41	1914689-00	DC 615B BIPOLAR, LS, 400-GATE	1	E90
42	42	1914690-00	DC 616C BIFOLAR, LS, 400-GATE	1	E85
43	43	1914691-00	DC 617C BIPOLAR, LS, 400-GATE	1	E69
44	44	1914695-00	DC 621C BIPOLAR, LS, 400-GATE	1	E59
45	45	1914696-00	DC 622B BIPOLAR, LS, 400-GATE	1	E83
46	46	1914703-00	DC 629C BIPOLAR, LS, 400-GATE	1	E60
47	47	23553A2-00	A2-05	1	E51
48 49	48 49	23904A9-00	A9-01	1	E15 E20
50	50	23618F1-00	F1-01	1	E21
51	50 51	23619F1-00 23021F2-00	F1-02 F2-01	1	E7
52	52	23022F2-00	F2-01	1	E25
53	53	23023F2-00	F2-01	1	E27
54	54	23024F2-00	F2-02	ī	E8
55	55	23025F2-00	F2-02	ī	E9
56	56	23026F2-00	F2-02	1	E10
57	57	23027F2-00	F2-02	1	E11
58	58	9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12	
59	59	1302379-00	75.0 .25 W 5.0 % CC	6	R5-R9,R11
60	60	1503121-00	2N 2369 NFN 350MW SI N	2	Q2,Q3
61	61	1912388-00	74SO2 NOR GATE-QUAD 2IN,FO	1	E2
62	62	1215006-03	SOCKET 18PIN IC LOW PROFILE	9	XE7-XE11,XE20,XE21,XE25,XE27
63 64	63 64	1215935-00 1215936-00	GASKET, THERMAL .50"X.80" HEAT SINK, FORCED CONVECTION	22 22	
65	65	1305125-00	383.0 .25 W 1.0 % RN55D-F10	1	R12
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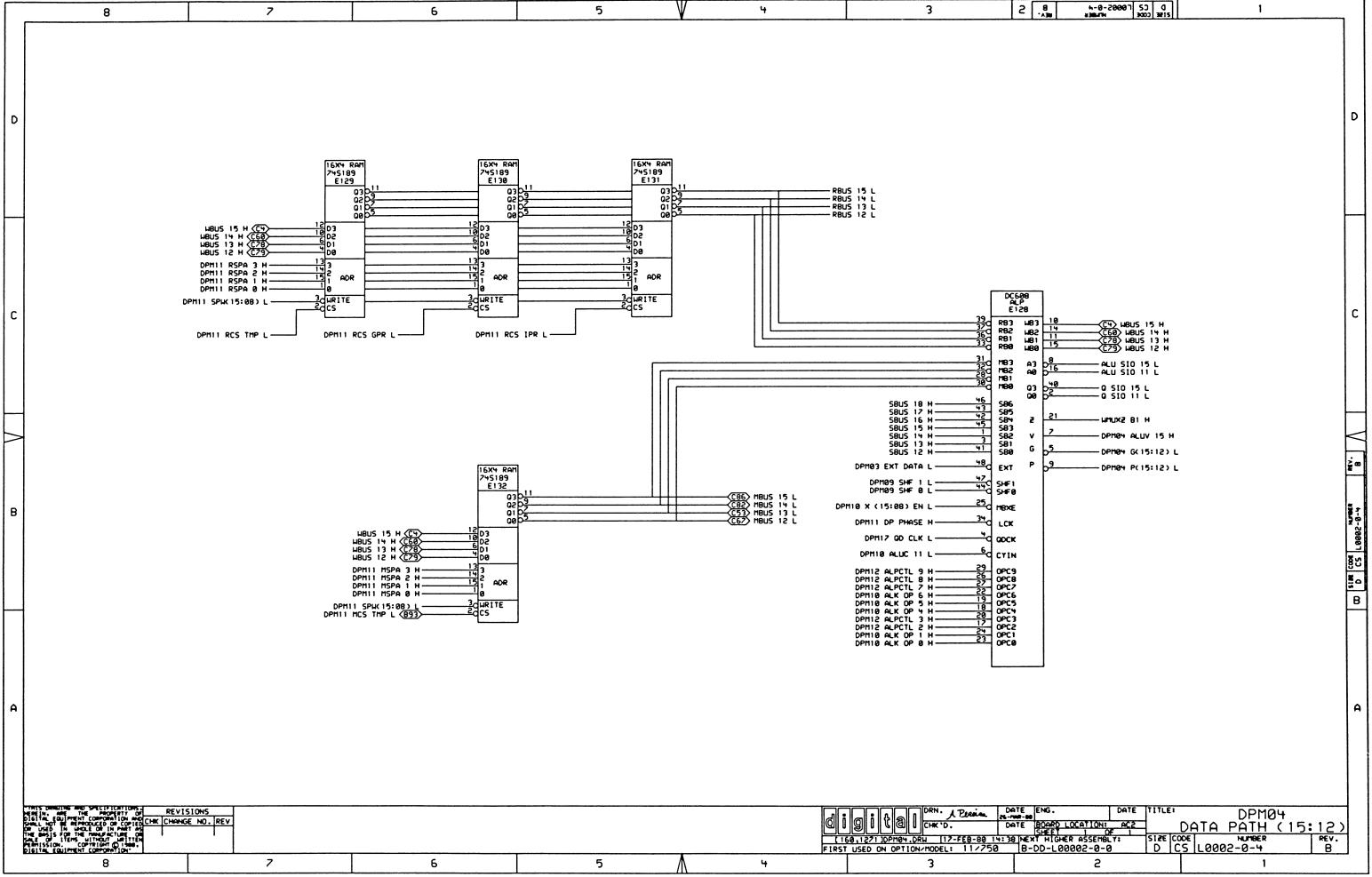
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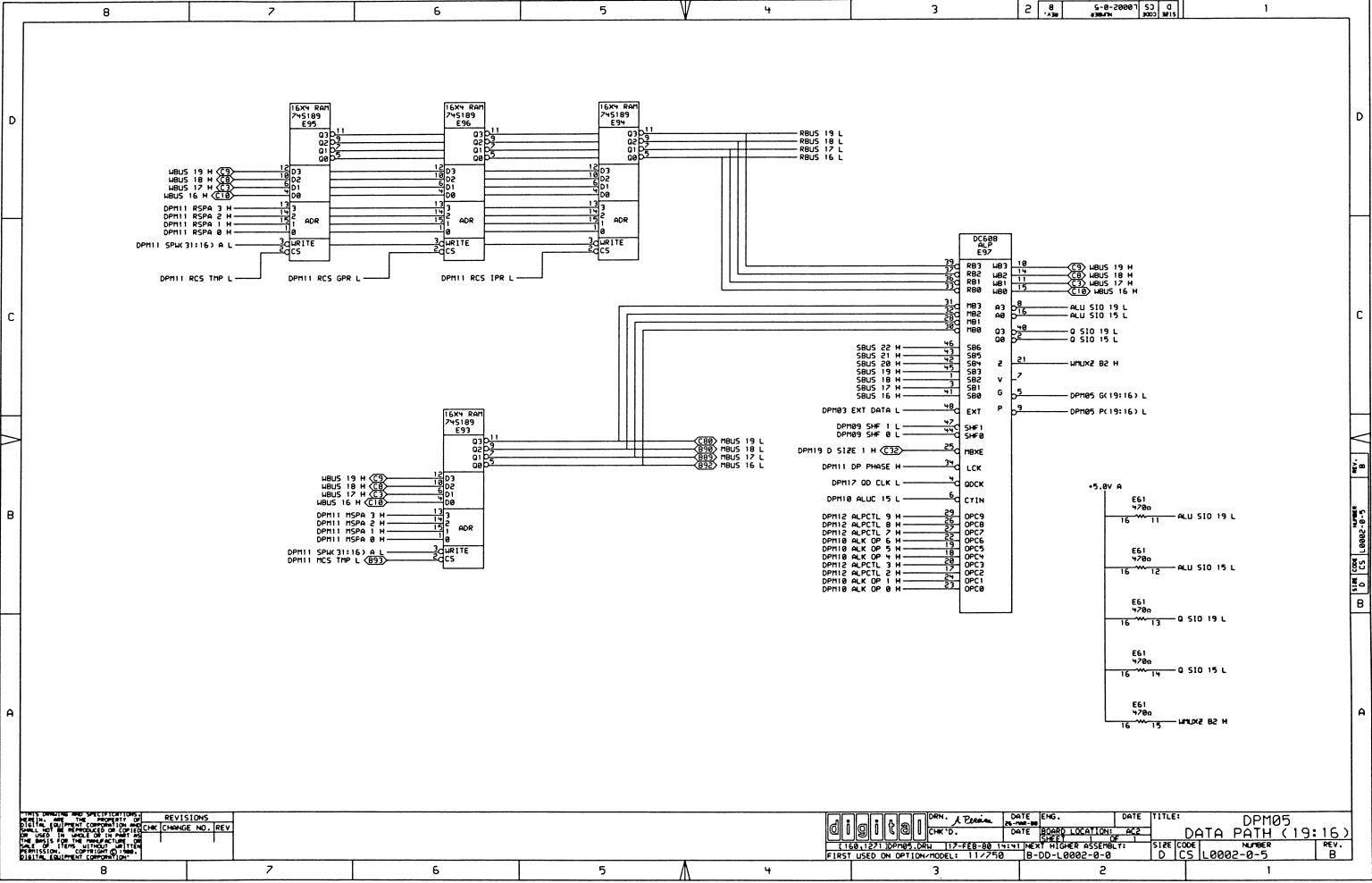
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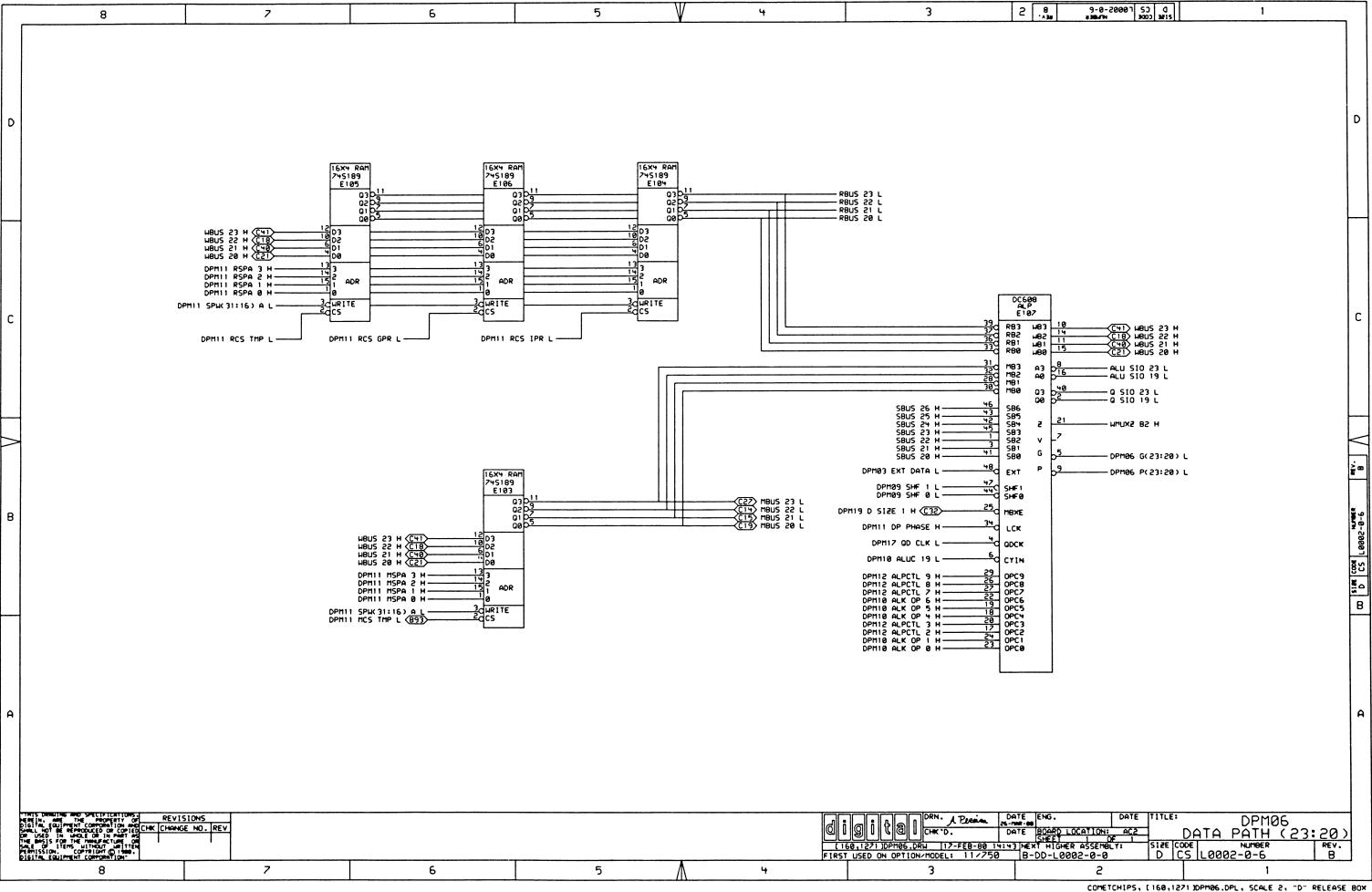


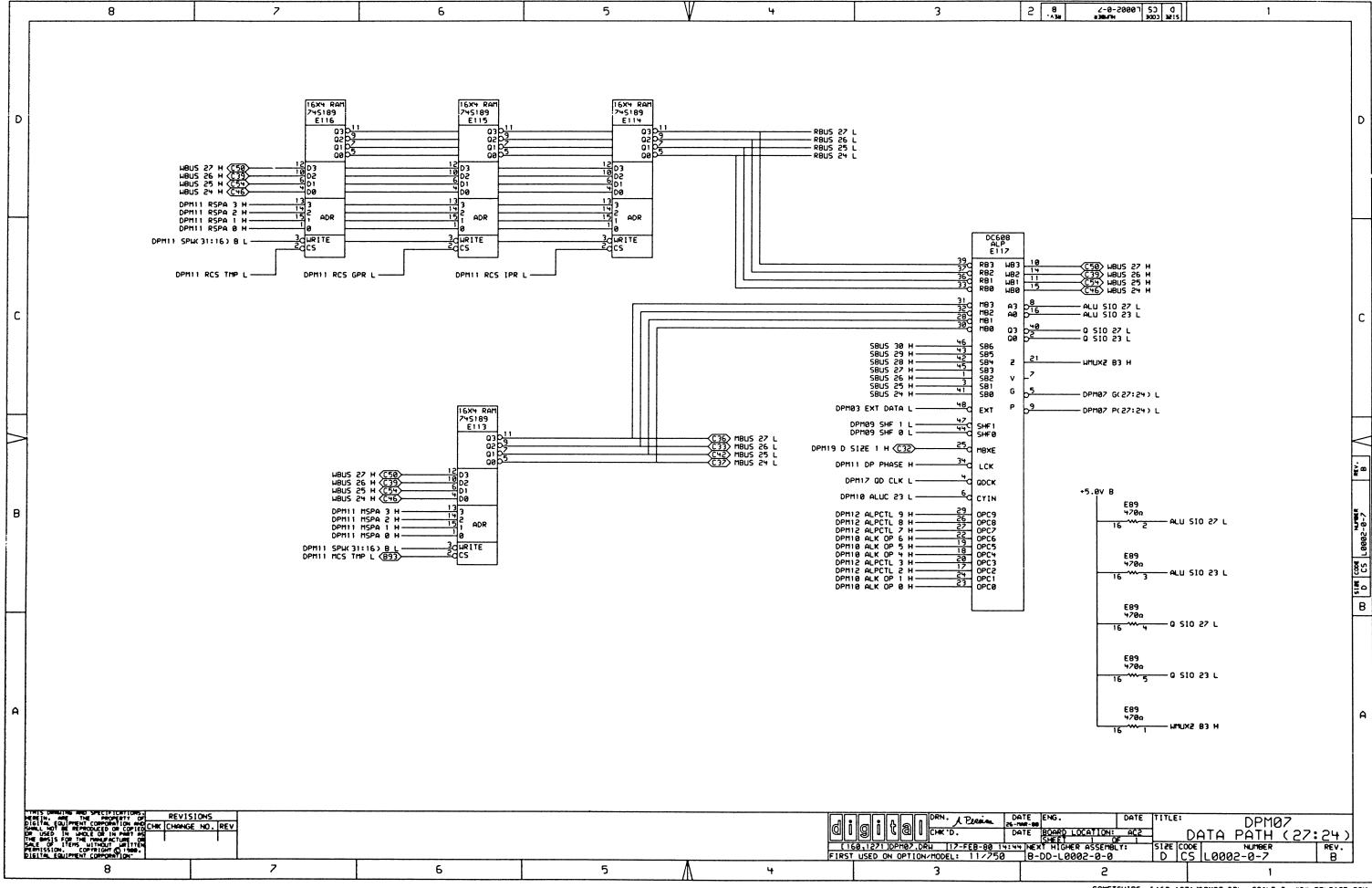


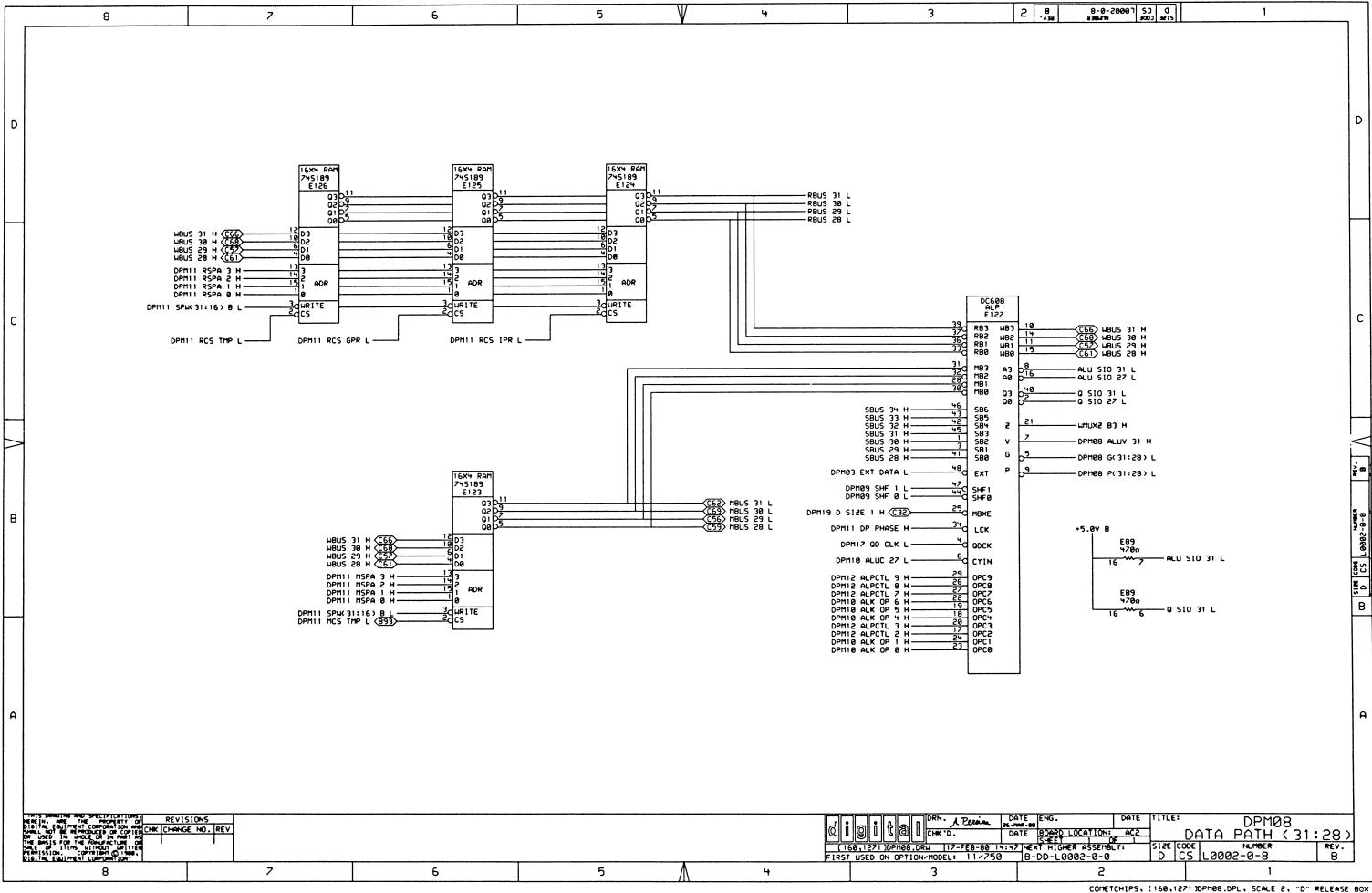


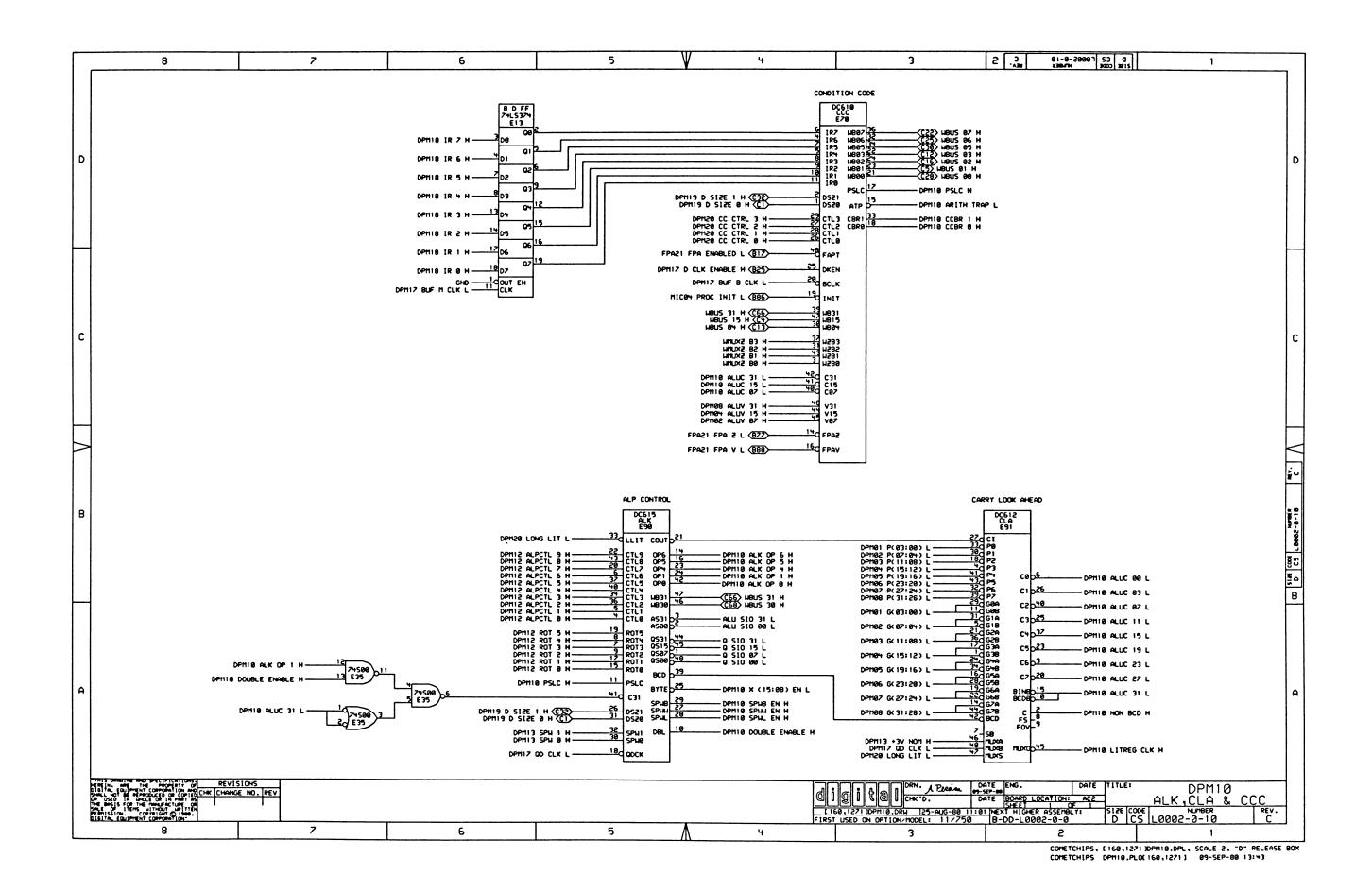


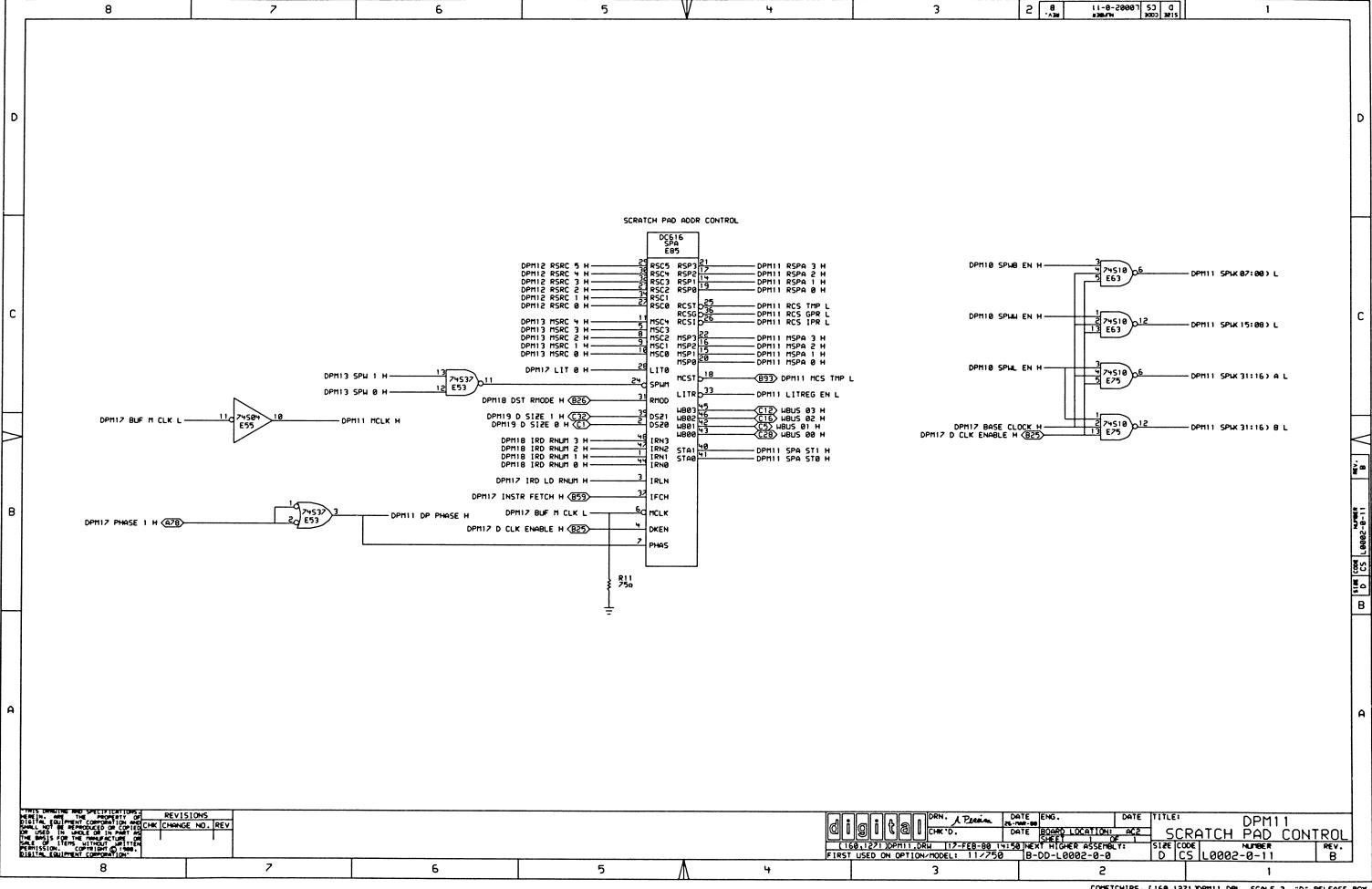


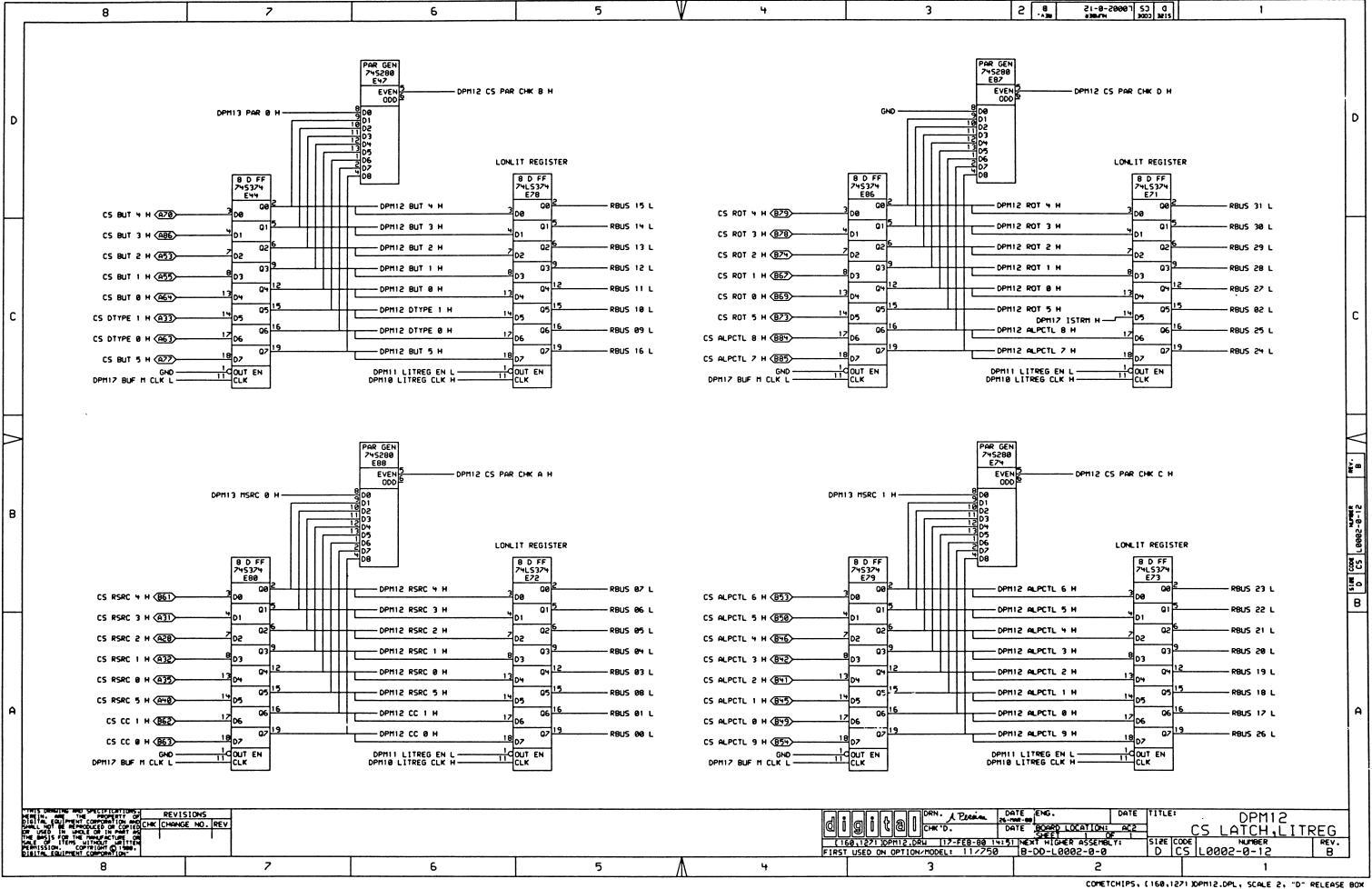


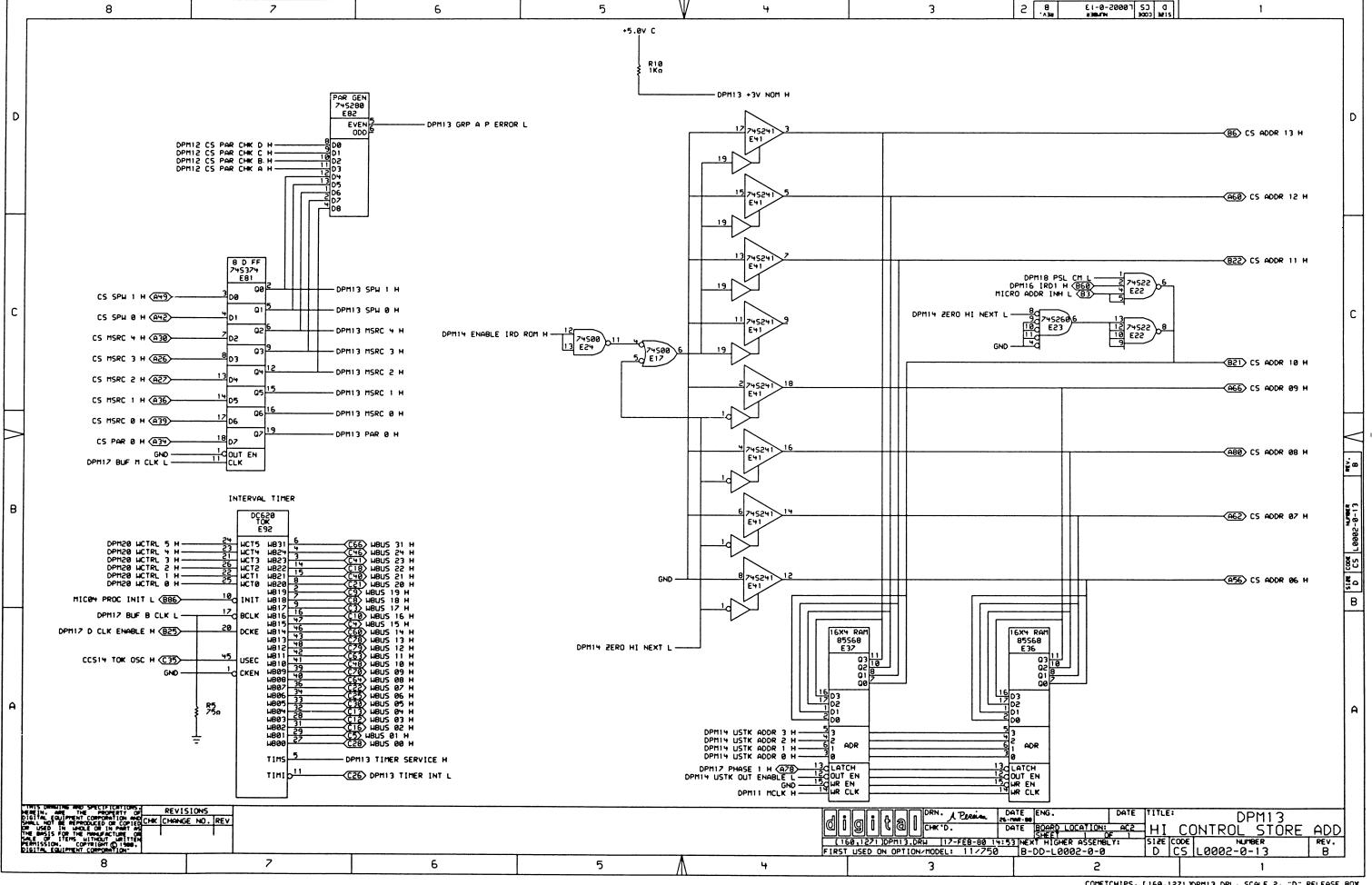


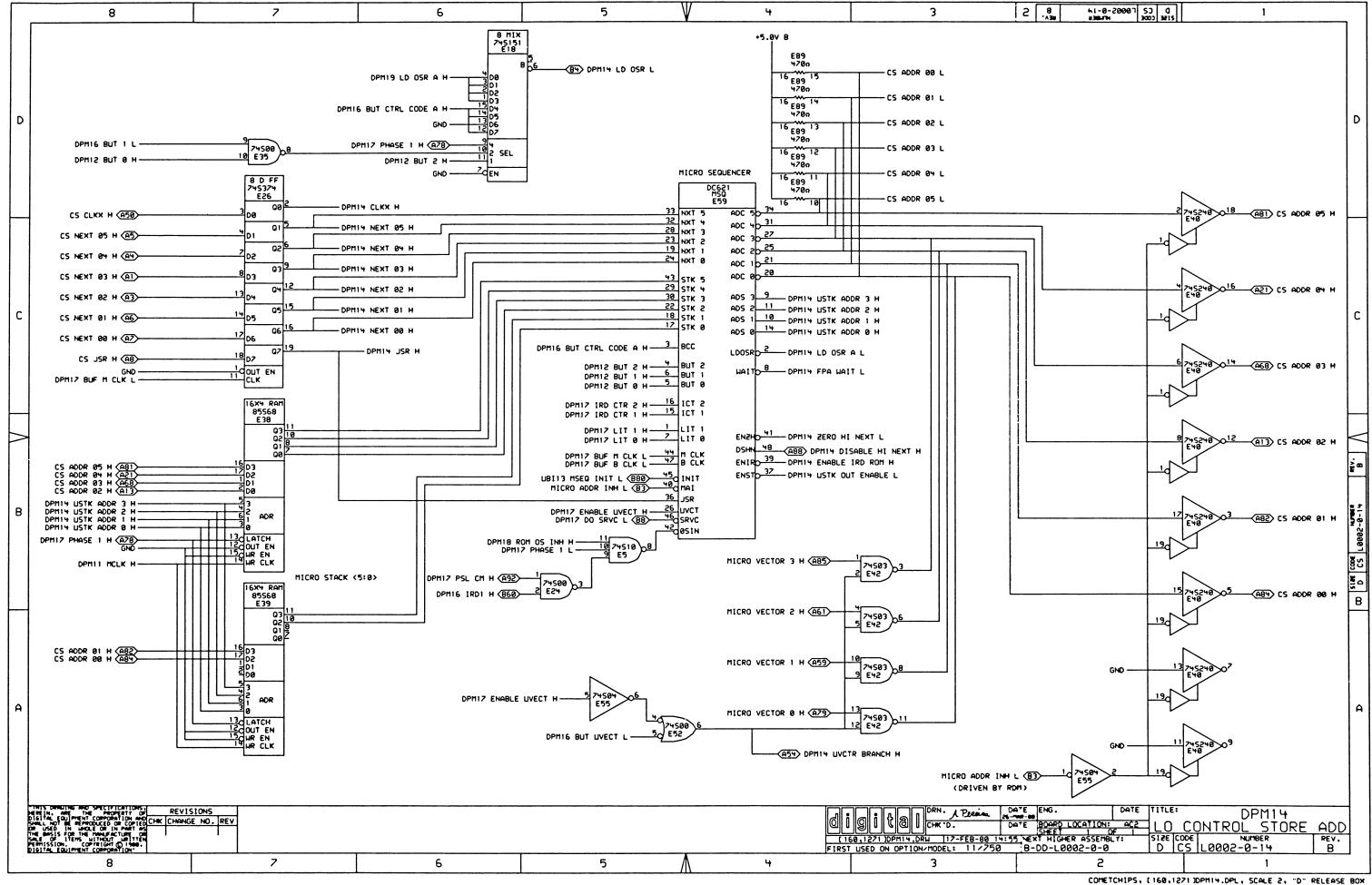


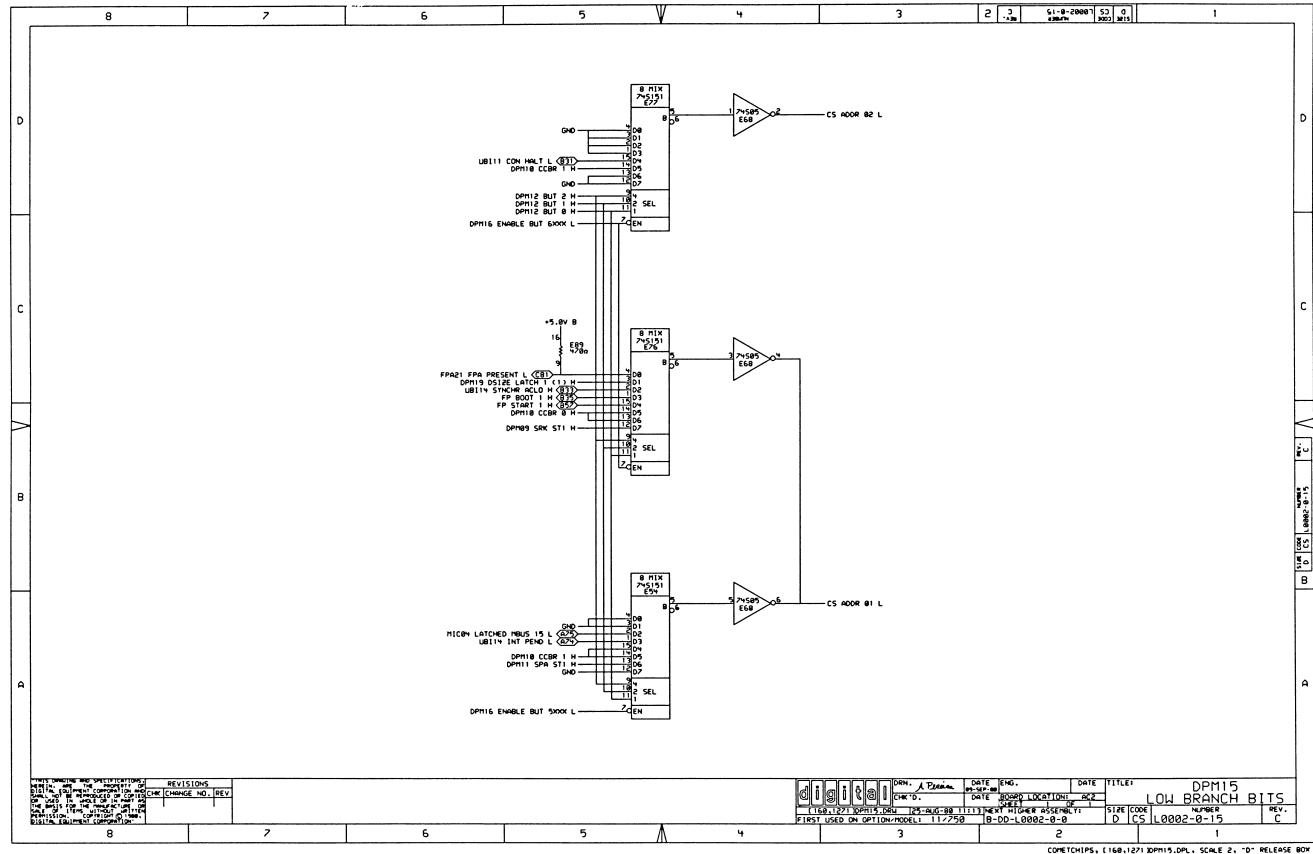


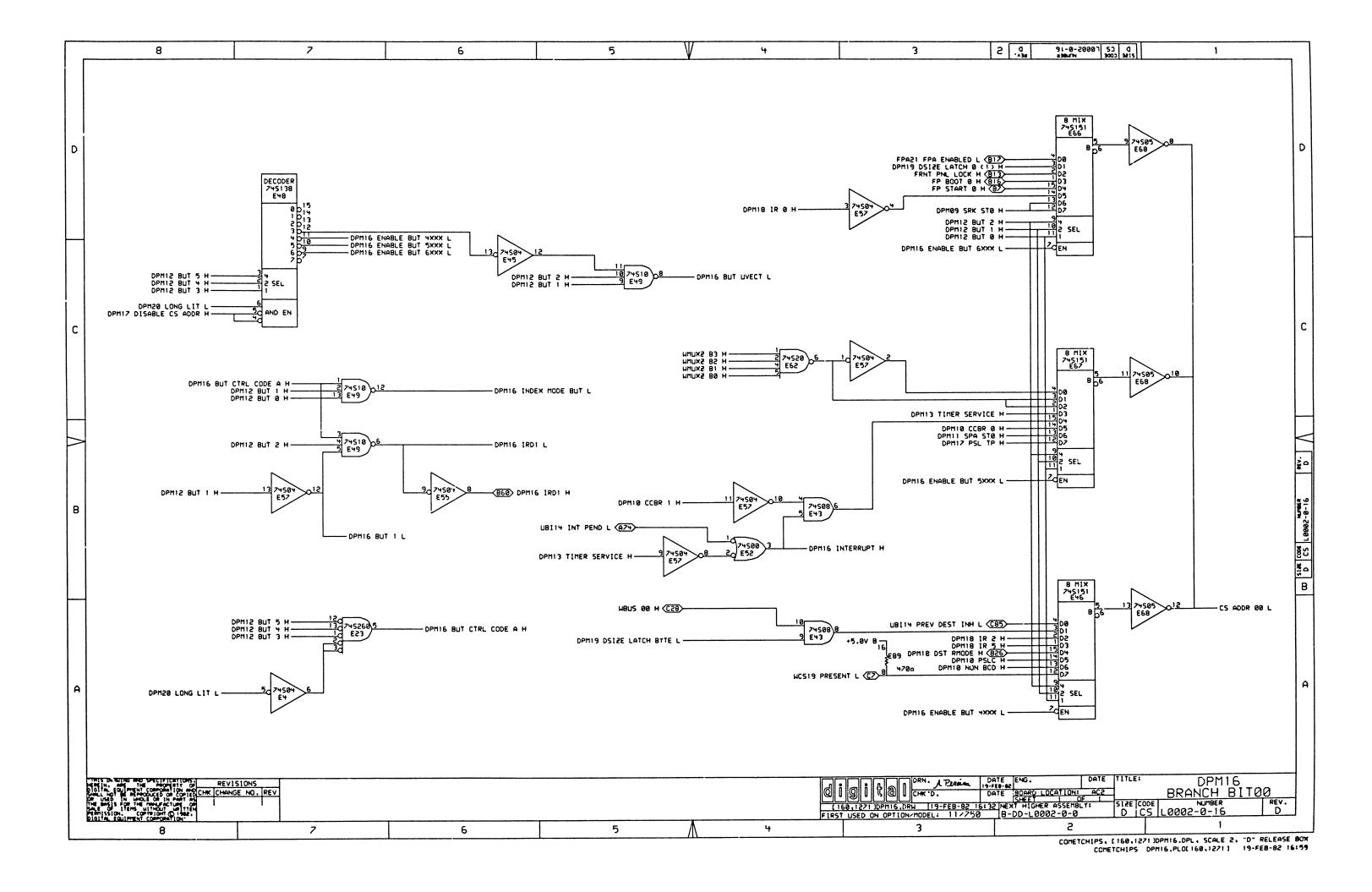


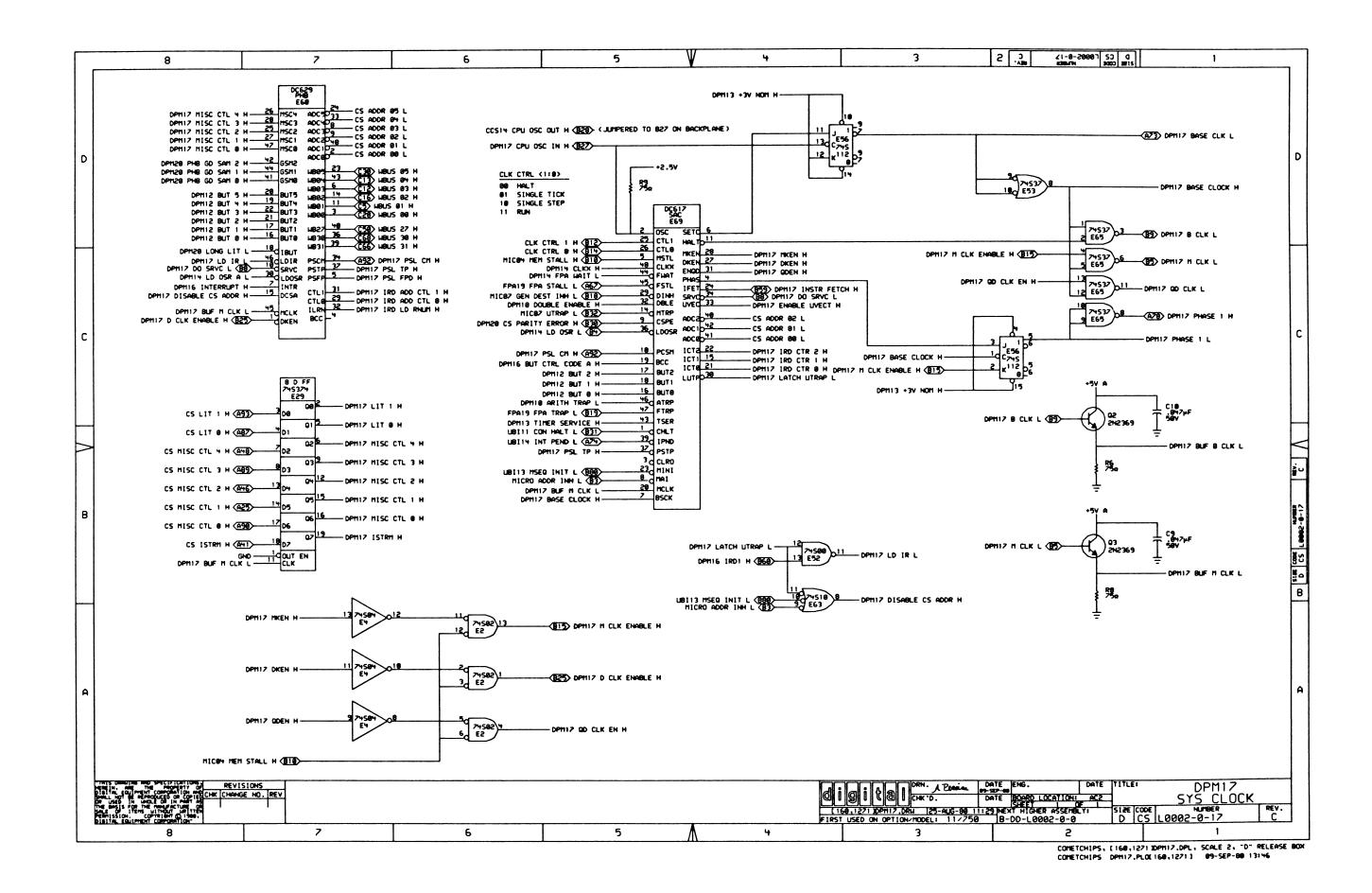


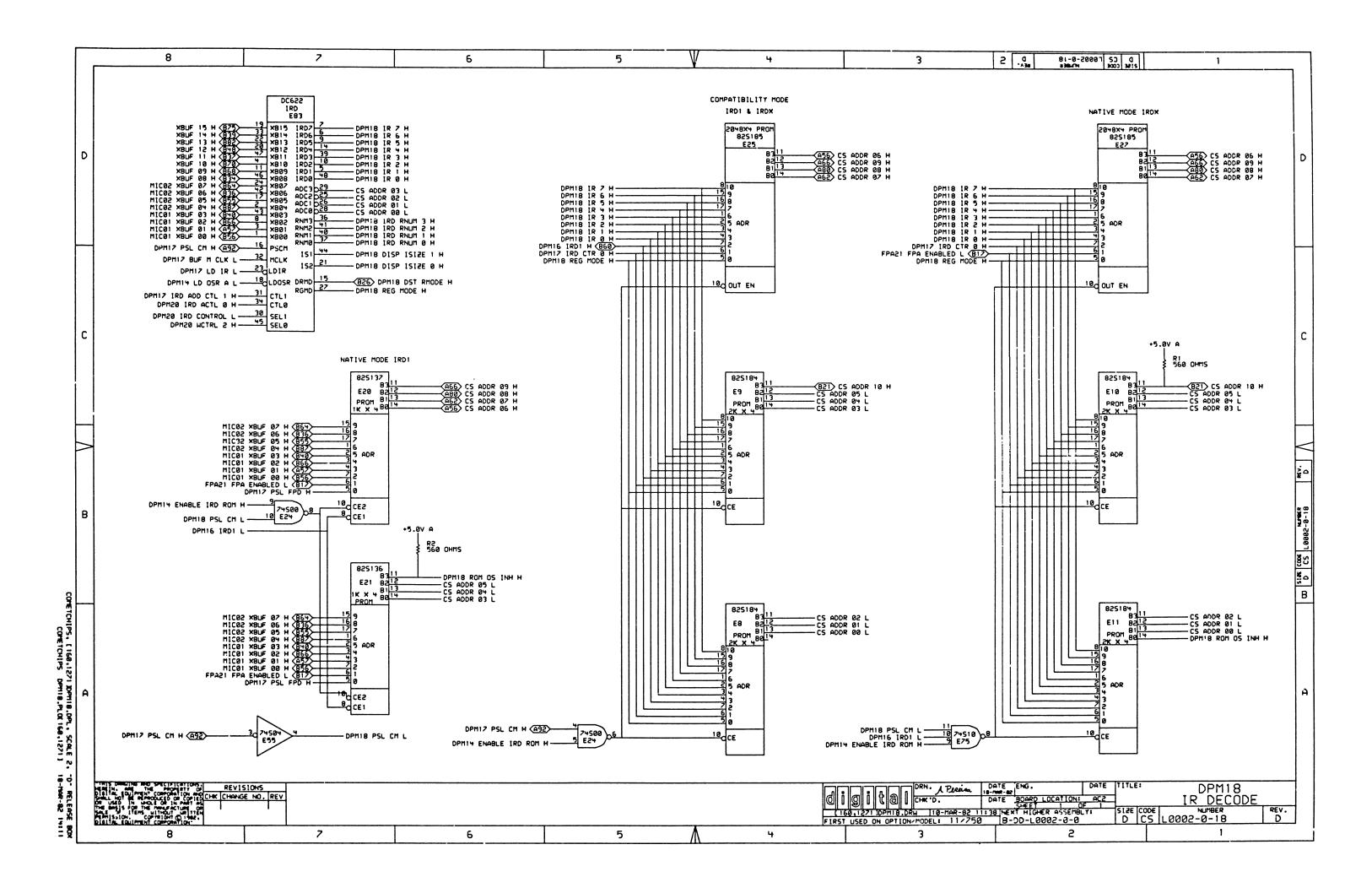


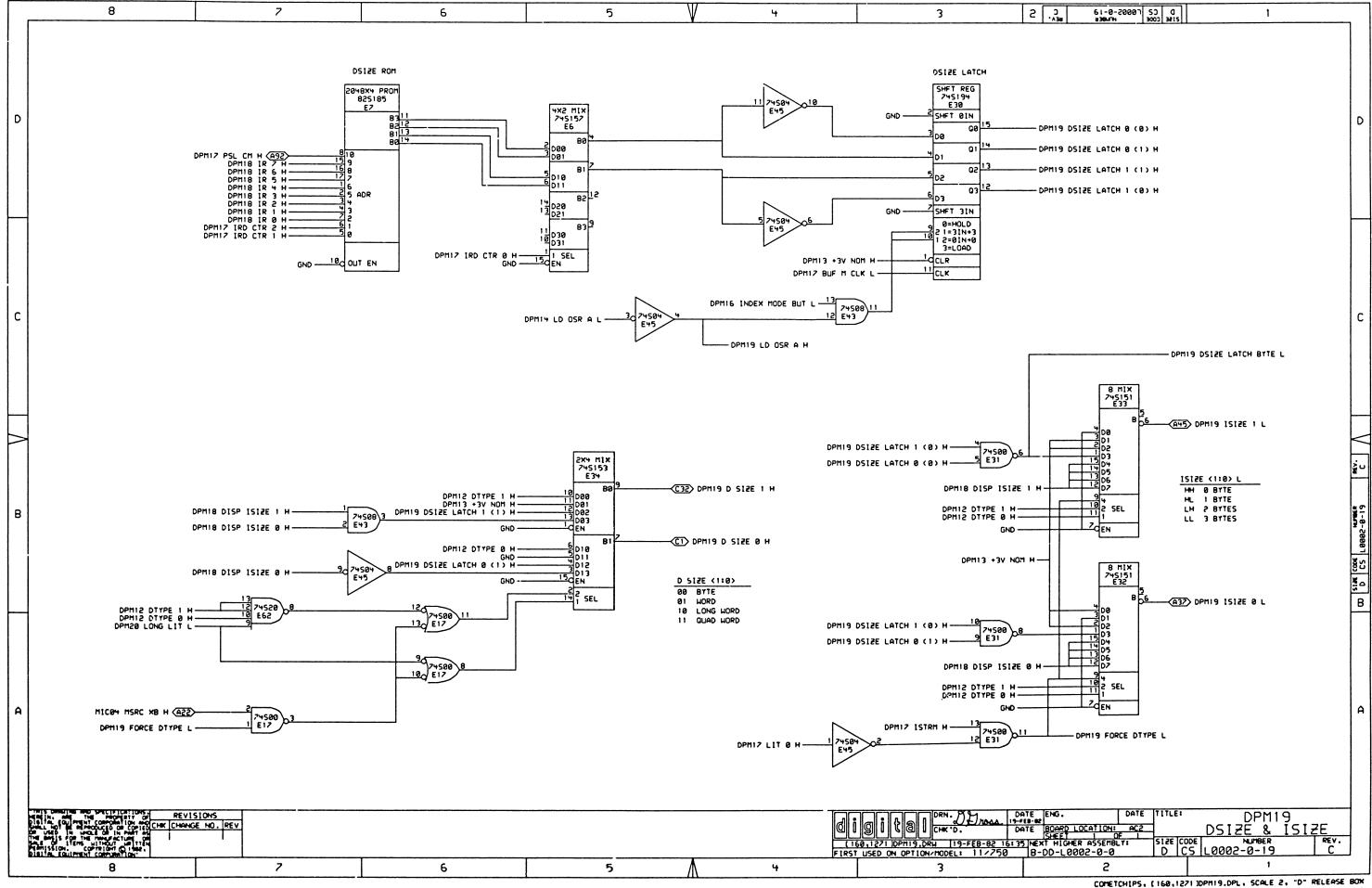


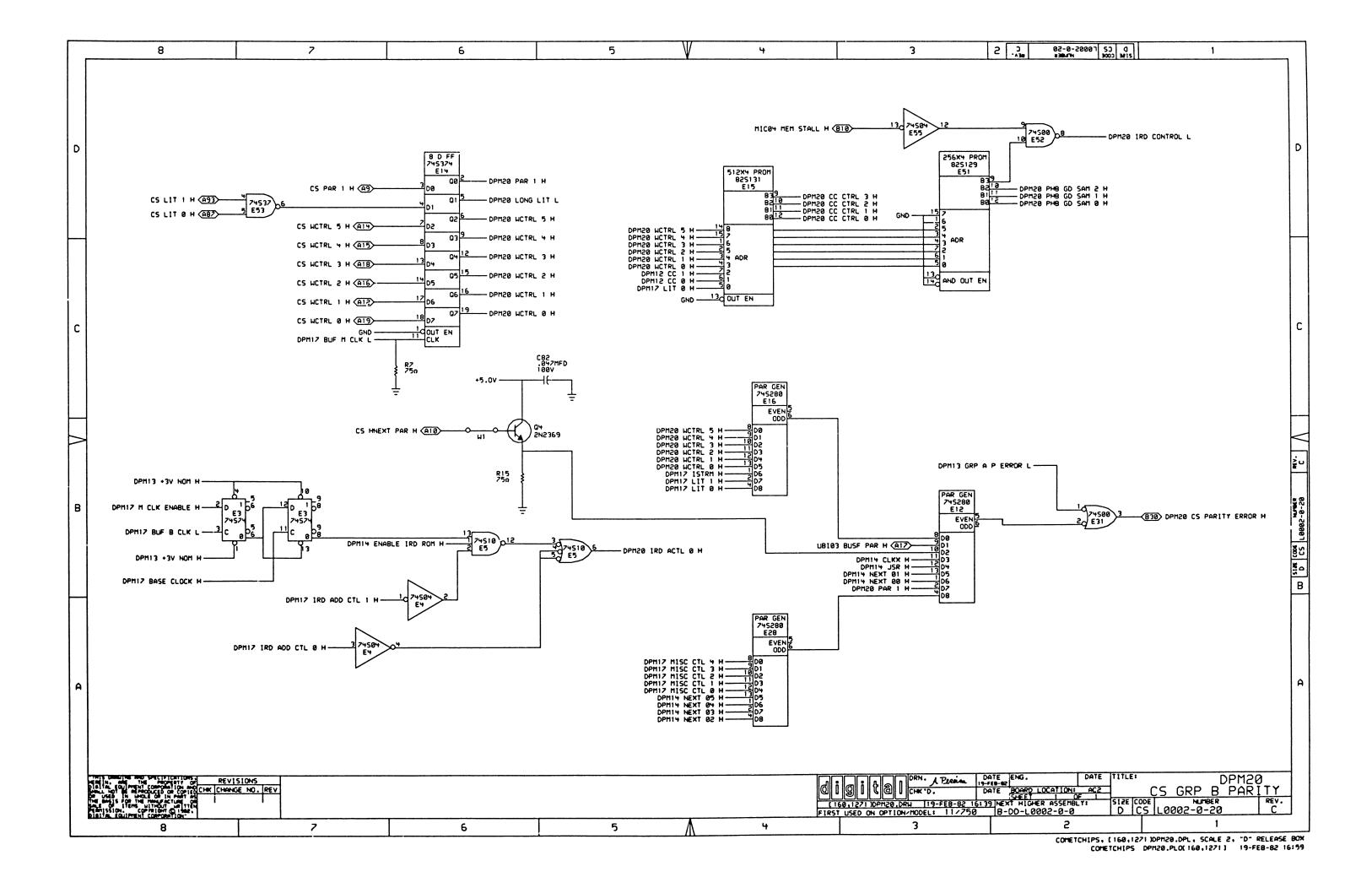


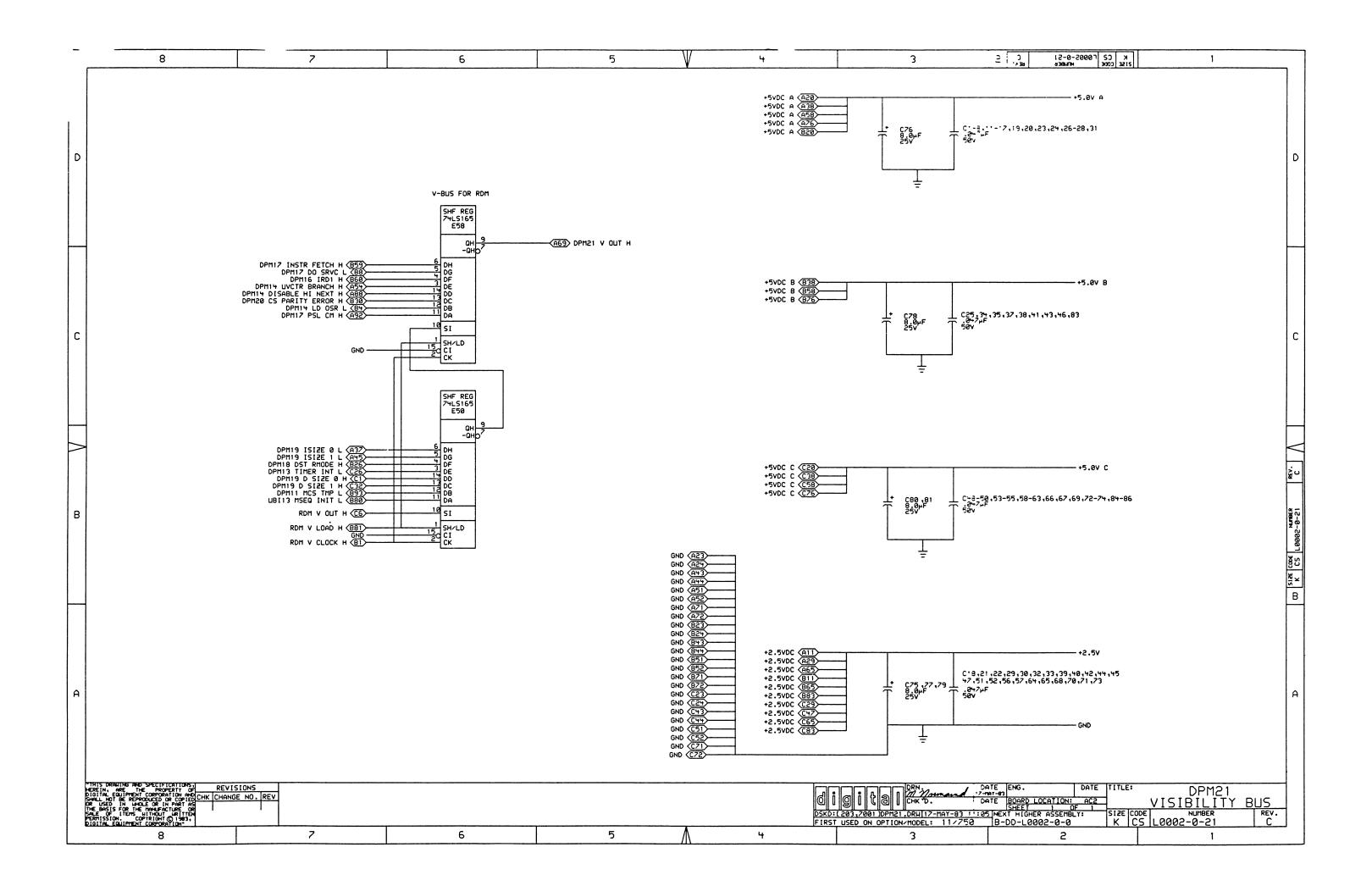










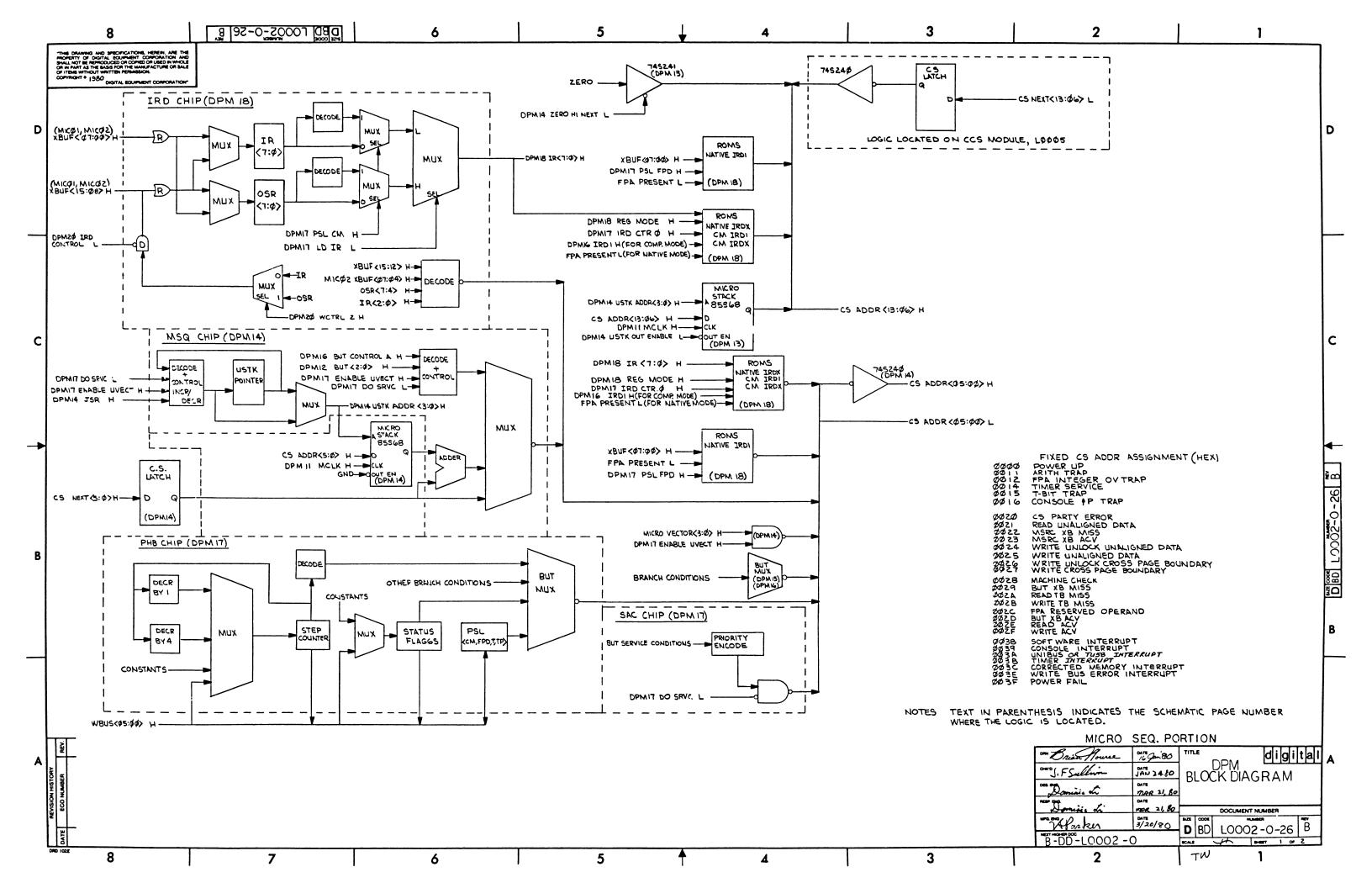


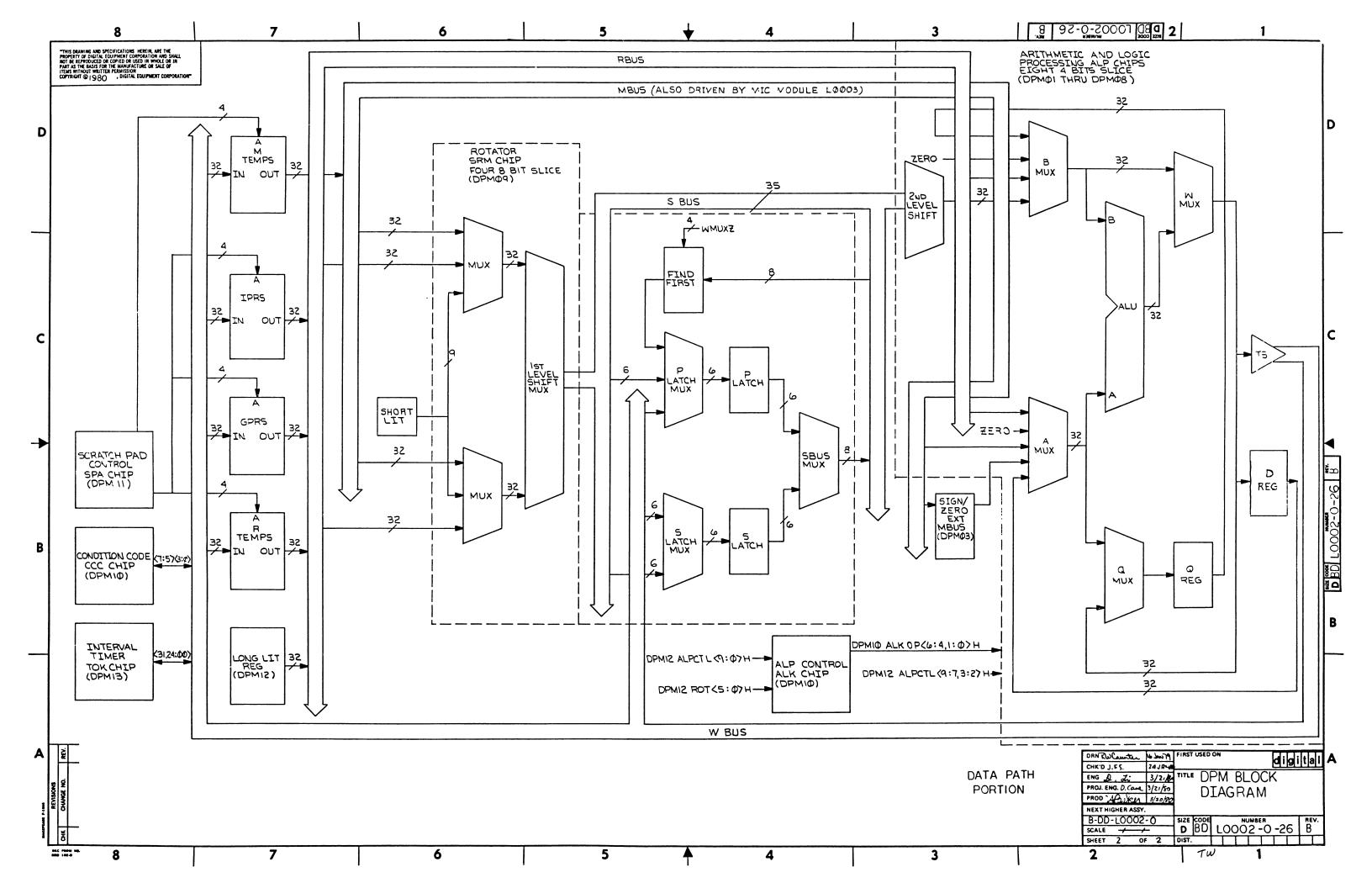
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	THIS DRAUTHS AND SPECIFICATIONS.  REVIS SEREIN. ARE THE PROPERTY OF DISTING COMPRESS COME CHK CHANGE OF LINE COMPRESS COME COME COME THE BASIS FOR THE PROPERCY OF SALE OF ITEMS UNFOUT WITTEN PERMISSION. COPYRIGHT () 1988. DIGITAL EQUIPMENT COMPORATION.	510NS E NO. REV	6	5	Λ 4	C160,1271 JDPH25.DRH 119-HAR-8 FIRST USED ON OPTION/HODEL: 11/2	DATE BOARD LOCATION: ACC SHEET 1 OF 1 0 12:58 NEXT HIGHER ASSEMBLY:	FORWARD REFERE  SIZE COOF NUMBER  D CS L0002-0-25	NCE REV. B





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Gom. Q+#X G-MX Q+HX 3GL 3+HX D+WX SQL NOP GCT DeetX SQL D-WX NOP D+WX NOP 0-HX NOP D-MX (A-B-CI).SR XH+Q G+HX D-HX G-HX D+MX G+MX O+HX G+HX Q-HX Q+HX Q+HX Q-HX Q+HX D+HX Домх Вомх G-HX g-HX **508** Q++00 Q+HX Q+WX Q+HX э-нх NOP D+HX D+HX GCT 9GL 0+HX NOP D-NX NOP D+HX D-MX NOP D+HX 902. D+HX NOP D+HX D+HX (A-B-CI).SL. O+HX G+HX D+HX G+HX Q-HX D+HX G+HX C+HX 0÷HX G÷HX SOR D+HX XH+C SQR Q+WX N.K. Q+HX Q-HX Q+dX Q+HX g-wx **50**R 0-400 Q-HX D+HX G+HX g•wx Don'x Gon'y Q-wA D⇔HX G⇔HX NOP D+HX NOP D+HX D+HY NOP RESVRO 0+HX NOP NOP D+HX 0+HX NOP D-HX 9Q. NO. NOP HOP D-MX D-MX D-HX NOP 2M+0 A+B+CI Q-HX SOR D+HX Q+HX D+MX D+HX G+HX D+HX G+HX D-HX G-HX SQR D=HX D+HX G+HX 30R 0-HX D-MX G-MX D⇔NX G⇔NX 3QR Q-HX Q+нX XH+D O+HX G+HX G+HX Q-HX RESVRO €-MX Q+HX 300 Q-+OX B++0X Q+нX Q÷⊌Х NOP SQL D+HX GOT. D+HX NOP D+HX HOP D+HX NOP D-WX NOP D+HX NOP C+HX NOP D-HX RESVRO NOP 90. 9QL D=+0X A+B+CI.BCD DeMX GeMX D+HX D+HX Q+H D+H\*+Q D⇔HX G⇔HX HV+Q S+XH+Q XH+D Q+X11 G+HX SGR D+HX G-MX **301** Q+HX 30R Q+WX Q-₩X Q-нх G+HX D-MX G-MX Q+F D+HX+S G-MX Q+HX Q-WX g-wx 3QL NOP SQL. D+HX SQL. C+HX D+HX RESVRO 96. D-MX NOP NOP D-HX KJ# D-4X D+HX (A+B+CI).SR O-HX SQR D+HX Q+WX Q+HX D+HX 308 30K D-MX G-MX D+HX D+HX D+HX G+HX C+NX D+HX G+HX G-MX C⇔NX C⇔NX 308 SOR D-H/X G-HX G-HX Q-HX Q+HX Q+HX Q-HX RESVRO Q-WX Q-10( Q+HX Q+HX 9QL 0+xX 9QL NOP D+HX NOP D+HX NOP D+HX NOP D-H7 NOP NO\* RESVRO 92 400 NCP D-WX (A+B+CI) JSL G+HX D-HX G-HX D-MX G-MX Q+HX XH+Q G+HX D+HX SQR D=HX 908 XH=0 Q+NX XH+C D-HCK Q÷HX XH÷C Q<del>o</del>⊌X X⊌oQ B-MX 3QR Q+ИX 501 Q+WX RESVRO 30× Conta Q-WX Q-4X NC" Defix 2GF SQL D+HX D-HX NOP NOP D+HX NOP RESYRO D-MX 304 200X HOP D-HOL NOP NOP D+WX A.AND.B Q+WX Q+ HX B+HX F+HX Q-нх D-HX Q÷HX D+HX G+HX SQR D+HX D-HX C+HX G+HX Q-nx SQR Q+HX Q-NX G-HX RESVRO **508** g-HX G-MX Q-+01 Q-HX Q-WX NOP 0+HX NOP SQL DealX 9QL 0+HX 30L D-HX 3QL NOP D+HX NOP D-MX NOP D+HX NCP D-HX NOP D+HX RESVED NCP D-MX **3**4. HOP **>+**•€ HOP 0+43 HOP D+H1 NOP D-MX A.OR.B SCS NH+0 SQR D+HX G-HX Q+HX XH+Q G-HX 9QR D÷⊌X G+MX D+HX G+HX DeHX GeHX D+HX D+HX 998 9400 Q+HX D+HX D+HX Sen. Sen. Q+HX SOR Q+HX SUR Q++iX В∙нх Q+HX Q+HX Q+HX RESVRO Q+HX SQR SQL. NOP SQL. SQL D+HX 90L 0+40X 301 D+W) (A,AND.B).SR G+WX D+WX SQR D+HX Q+HY D<del>-H</del>X Q+HIX D-HX G-HX D+HX G+HX D-MX G-MX D•HX G•∺X G+HX D+HX 0÷HX G÷HX SQR G-MX G-MX HULFAST-SUR Q-40X Q-HX C-HX Q-HX HULSLOW-B-HX Q+WX NOP D-MX 5QL D-HX SQL. NOP NOP D-WX NOP D+HX NOP D-WX NCP D-HX D+HX D+WX DIVEAST+ DIVELON D-HX **30**L HOP NOP D-WX NOP D+HX VCP (A.AND.B).SL D+HX G+HX D-MX SQR D+HX Q+HX XH+Q D-MX Q+HX SQR Q+HX SQR Q∙нх Q-HX G-MX Q+WX Q+WX POVIG Q-нX O+HX G+HX **50**R Q-400 Q-+Dt Q-HX Q+WX SQL DeHA 3QL. 0+47. SQL. D+HX NOP RESVRO D-MX 5QL B-A-CI SQR D+HX Q+HX Q+WX SQR D+HX G+HX 2+4X Q+WX G-HX Q+HX D+MX G+MX SOR D+HX RESVRO D+HX G+HX Q+HX D+HX C+HX HX+2 Q+HX D+HX G+HX Q+HX Q+HX Q+HX **504** Q++0( Q+HX D+H2: NOP D+HX 30L. 0+HX 902. D-HX ZH+C NOP SQL D+HX 30L NOP HOP D-HX NOP NOP D+HX NOP RESVRO 400 NOP NOP D+HX D+HX NOP D+HX **5**0\_ NOP D-+0( D+HX D-HX A.XOR.B SQR D+HX SOR YH+G Q+HX D+HX D+HX G+HX D+HX G+HX D+HX G+HX Q+HX Q+HX SQR DowlX D+HX G+HX G+MX Q+HX **30**8 Q+HX Q-HX Q+HX Q÷HX D÷HX O+HX G+HX SQR Q+NX G-HX RESVRD G+HX 908 Q+Ot Q++0t Q+HX G+HX SQL D+HY SQL D++X SQL. D+HX MOP D+MX SQL NOP 5QL NOP 0+HX NOP D-HX NOP D-HX NOP NOP D-HX RESVRO 90<u>2</u> NOP NOP 0-400 E A AND ( NOT B) G+HX SQR D+HX Q÷HX D÷HX G+MX XH+D D+HX G+HX G+MX 308 308 D-MX G+HX G+HX G-HX Q+HX G-HX 908 HB-LOOFF R-6 Q+HX Q-HX SQL. SQL. D+HX D-MX 406 D-HX NO. D+HX D+NX NOP NOP D-MX 50. NOP L-HX D-HX DIVFAST-DIVELON-D-HX 0-400 (.NOT.A).AND.B 5QR 0+H/ Q-HX D-HX D+MX G+MX D+HX G+HX B-MX G+HX G+HX D+HX Q+HX NB+ALUF Q+0+5 Q+HX 908 Q+HX 904 Q+HX Q-HX G-HX Q+нх Q+HX DIVDA Q-WX **39**8 2-100 Q-нX G-HX SQL SHIFT Q LEFT DSRID SHIFTED RIGHT XMISIGN/ZERO EXTENDED MBUS A # AMUX BIRMUX CIICARRY IN MIMBUS QIQ REGISTER DQ SOR SHIFT O RIGHT 8 2 SPECIAL OPERATION DUTPUT D BD LCCC2 -0 -27 MICRO ALPCTL FUNCTION CHART SISUPER ROTATOR 1 3 ORDER DSL D SHIFTED LEFT RESVRD RESERVED 0137. SHEET OF I FNG. A 5 6

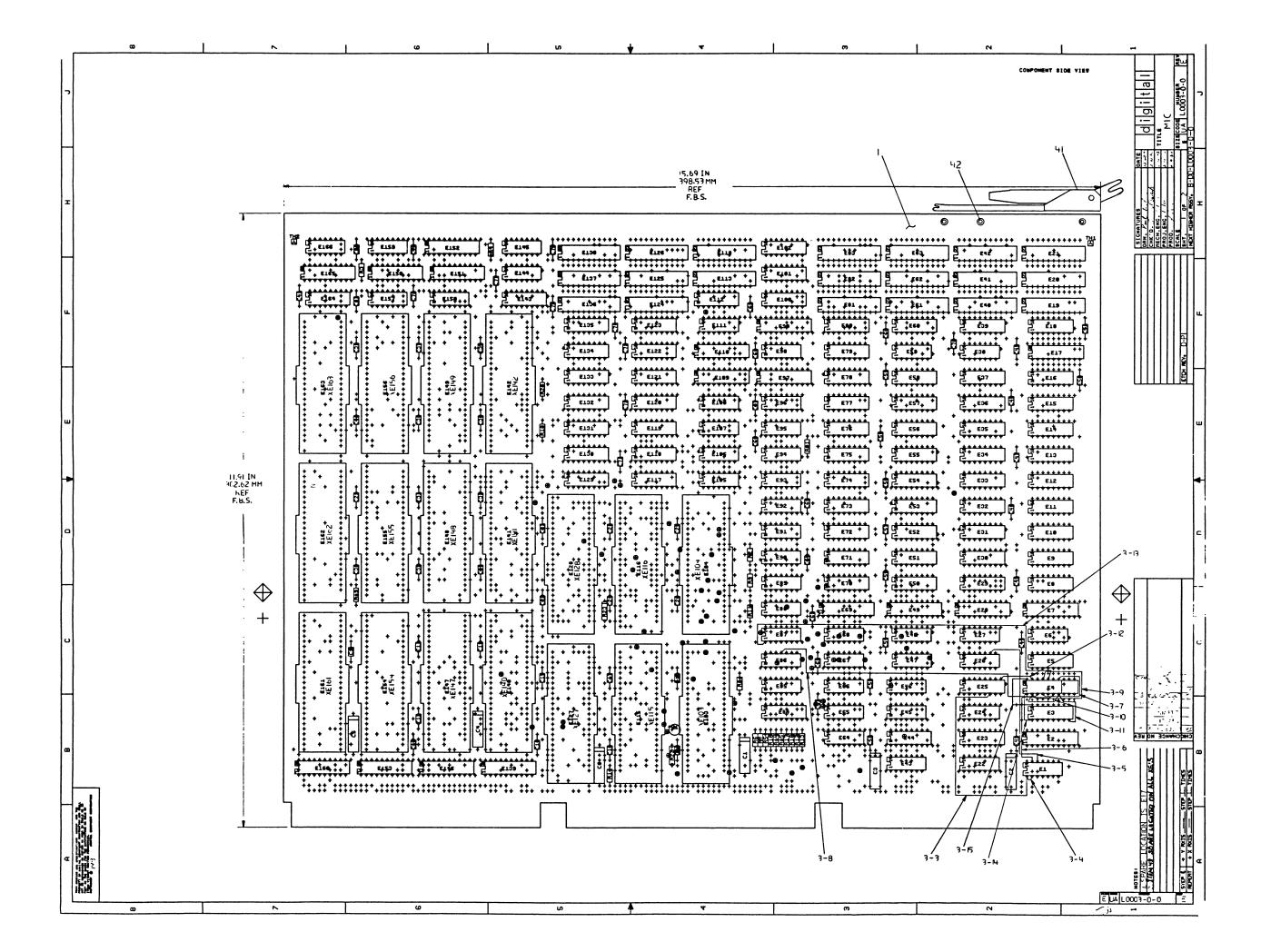
B DD EV. NUMBER DRAWING NO. OF PART NO. DESCRIPTION **REVISIONS** MODULE REVISION BICIDIE BCDE 3 MIC DRAWING DIRECTORY B-DD-L0003-0 2 BICIDIE E-UA-L0003-0-0 MIC UNIT ASSEMBLY 2 MIC PARTS LIST BICIDIE K-PL-L0003-0-DBP BBCC MIC DRILL & ETCH DRAWINGS 6 E-MD-5013693-0-0  $C \subset D \cup D$ 5013693 ETCHED BOARD CCDDMIC PC DESIGN DATA BASE IDEA K-PC-L0003-0-DBI 3 MIC ETCH CUT DRAWINGS BBCD E-EC-5013693-0-0 BCDE K-CS-L0003-0-DBS MIC DESIGN DATA BASE SUDS BBBB D-CS-L0003-0-1 DATA ROUTING & ALIGNMENT SHT 1 BBBB DATA ROUTING & ALIGNMENT SHT 2 D-CS-L0003-0-2 1 BBBB D-CS-L0003-0-3 MEMORY ADDRESS 1 BBBBB D-CS-L0003-0-4 1 MISC. CONTROL BBBB D-CS-L0003-0-5 MEMORY INTERFACE CS LATCHES BBBB MEMORY INTERFACE CONTROL SHT 1 D-CS-1 0003-0-6 BCBB D-CS-L0003-0-7 MEMORY INTERFACE CONTROL SHT 2 BBBB D-CS-L0003-0-8 CACHE TAG STORE BBBB D-CS-L0003-0-9 CACHE DATA STORE BYTES 3 & 2 BBBB D-CS-L0003-0-10 1 CACHE DATA STORE BYTES 1 & Ø BBBB D-CS-L0003-0-11 CACHE CONTROL BBBB D-CS-L0003-0-12 CACHE TAG PARITY BBBB D-CS-L0003-0-13 CACHE TAG PARITY D-CS-L0003-0-14 BBBB TR TAG BBBB D-CS-L0003-0-15 TB DATA STORE BBCC D-CS-I 0003-0-16 TB CONTROL **NOTES:** \* CONTROL SOURCE IS THE SUDS DATA BASE REVISIONS CHG NO. TWØØ1 TWØØ2 TWOO3 NO CONTROLLED PAPER ORIGINALS EXIST ALL DOCUMENTATION WAS RELEASED AT REVISION 'B' 2-80 1-81 0-82 DRN. TITLE **USED ON OPTION/MODEL** THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-CASEY 11/750 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL MIC CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN CASEY PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF REV. SIZE CODE NUMBER ITEMS WITHOUT WRITTEN PERMISSION. P. BITTER B DD L0003-0 PROD. V. PARKEP COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION OF 3 SHEET 1

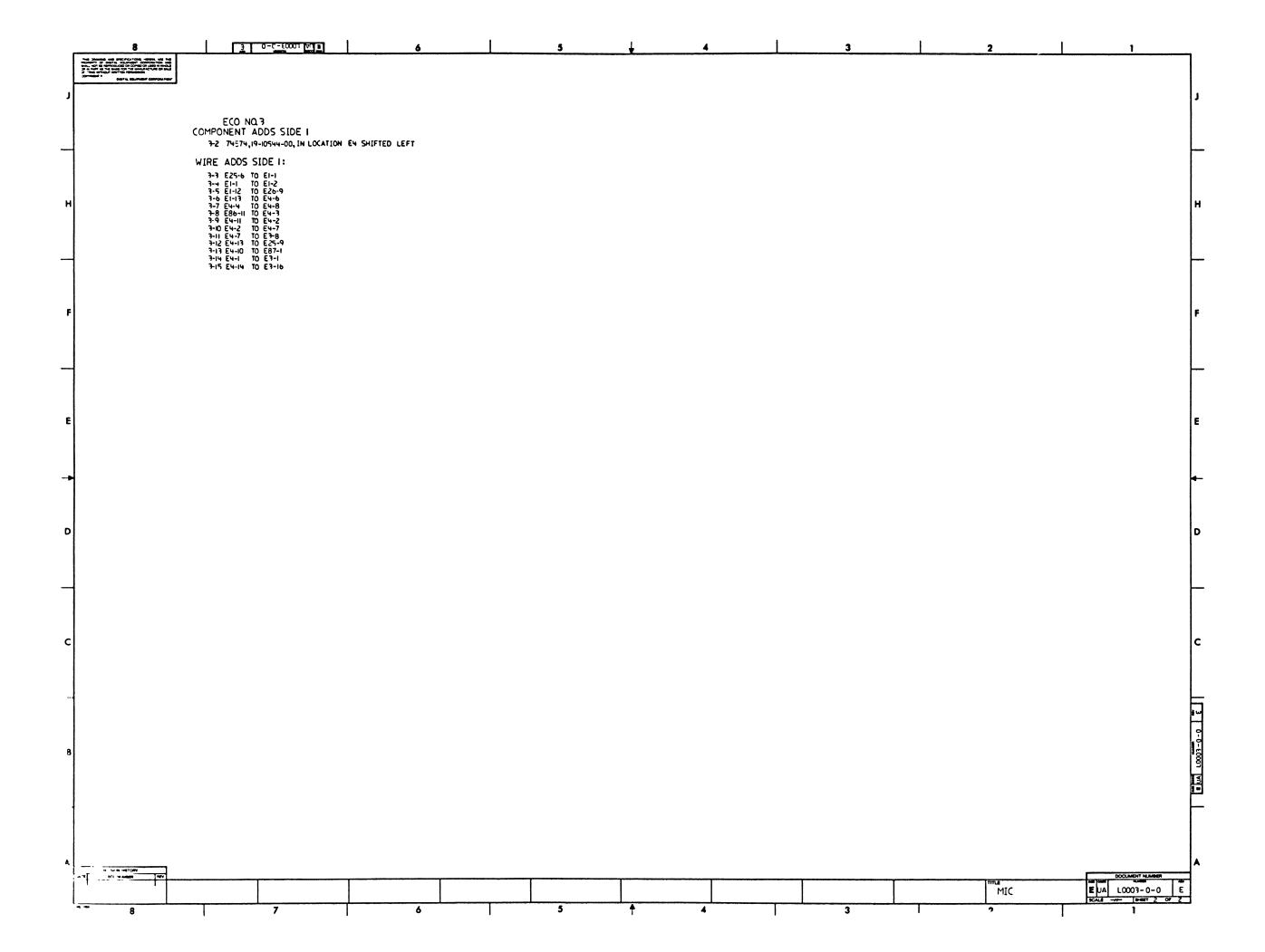
LCC03-0

B DD size code NOMBER DRAWING NO. OF SHTS. PART NO. **DESCRIPTION REVISIONS** TB PARITY D-CS-L0003-0-17 BBBB MISC CONTROL & DECOUPLING BCDE D-CS-L0003-0-18 FORWARD REFERENCE D-CS-L0003-0-19  $c \subset c$ D-CS-L0003-0-20 FORWARD REFERENCE CCC D-CS-L0003-0-21 BBBB FORWARD REFERENCE BCCC D-CS-L0003-0-22 FORWARD REFERENCE BCCC MIC BLOCK DIAGRAM D-BD-L0C03-0-23 **NOTES:** \* CONTROL SOURCE IS THE SUDS DATA BASE TW001 TW002 TW003 REVISIONS CHG NO. NO CONTROLLED PAPER ORIGINALS EXIST ALL DOCUMENTATION WAS RELEASED AT REVISION 'B' 12-80 11**-9**1 10-82 DRN. J. CASEY TITLE USED ON OPTION/MODEL "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-11/750 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL MIC CHK'D J. CASEY NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF B DD NUMBER ENG. P. BINDER REV. ITEMS WITHOUT WRITTEN PERMISSION. L0003-0 PROD. V. PARKER COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION SHEET 2 OF 3 TW

0-20007

T0003-0 E. B DD size code DRAWING NO. OF SHTS. PART NO. **DESCRIPTION REVISIONS** MODULE REVISION E-UA-L0003-0-0 2 MIC UNIT ASSEMBLY E-EC-5013693-0-0 3 ВІ MIC ETCH CUT DRAWING NOTES: TITLE USED ON OPTION/MODEL DRN. "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-MIC 11/750 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER LOOG - O NUMBER REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION PROD SHEET 3 OF



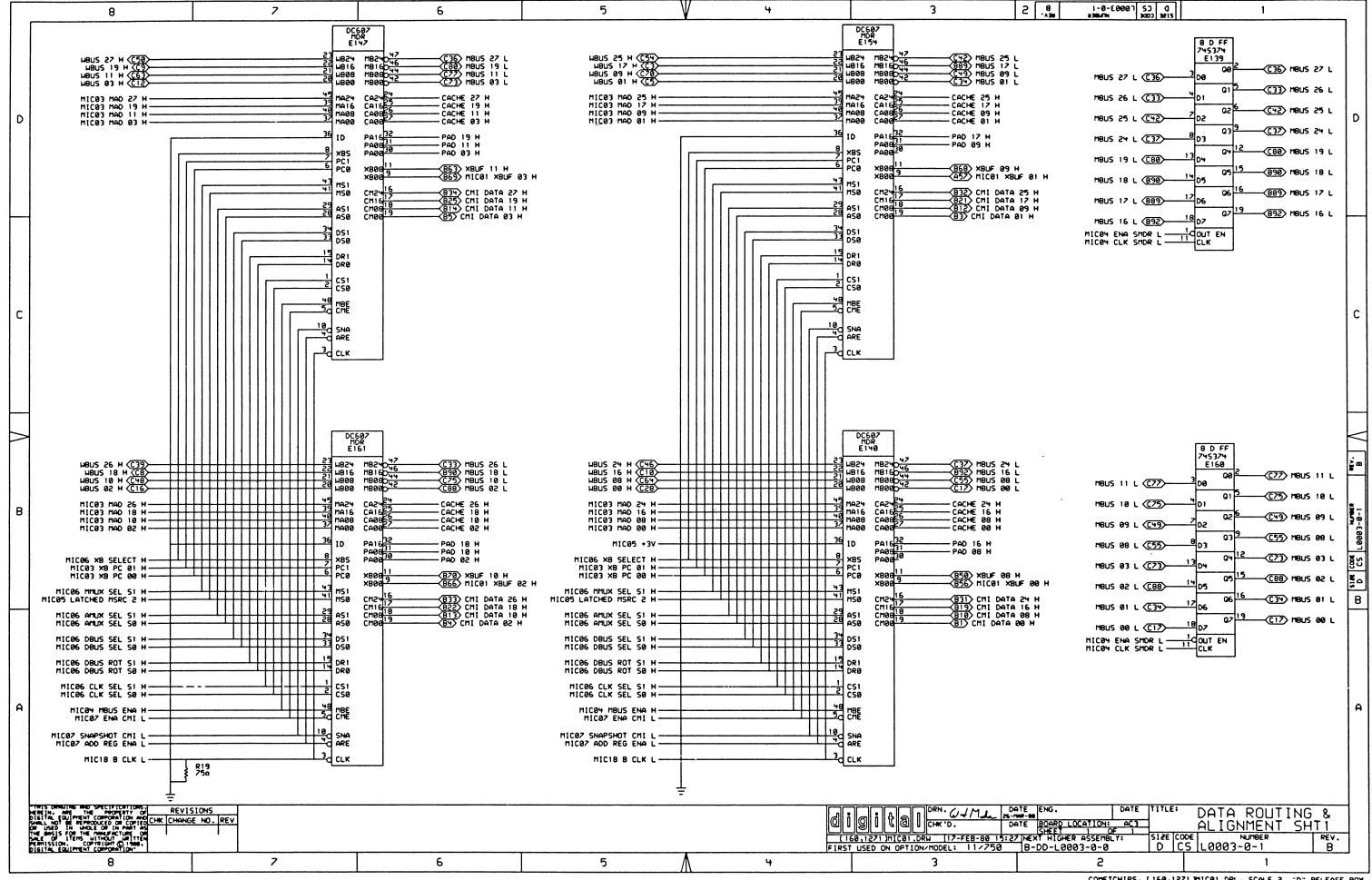


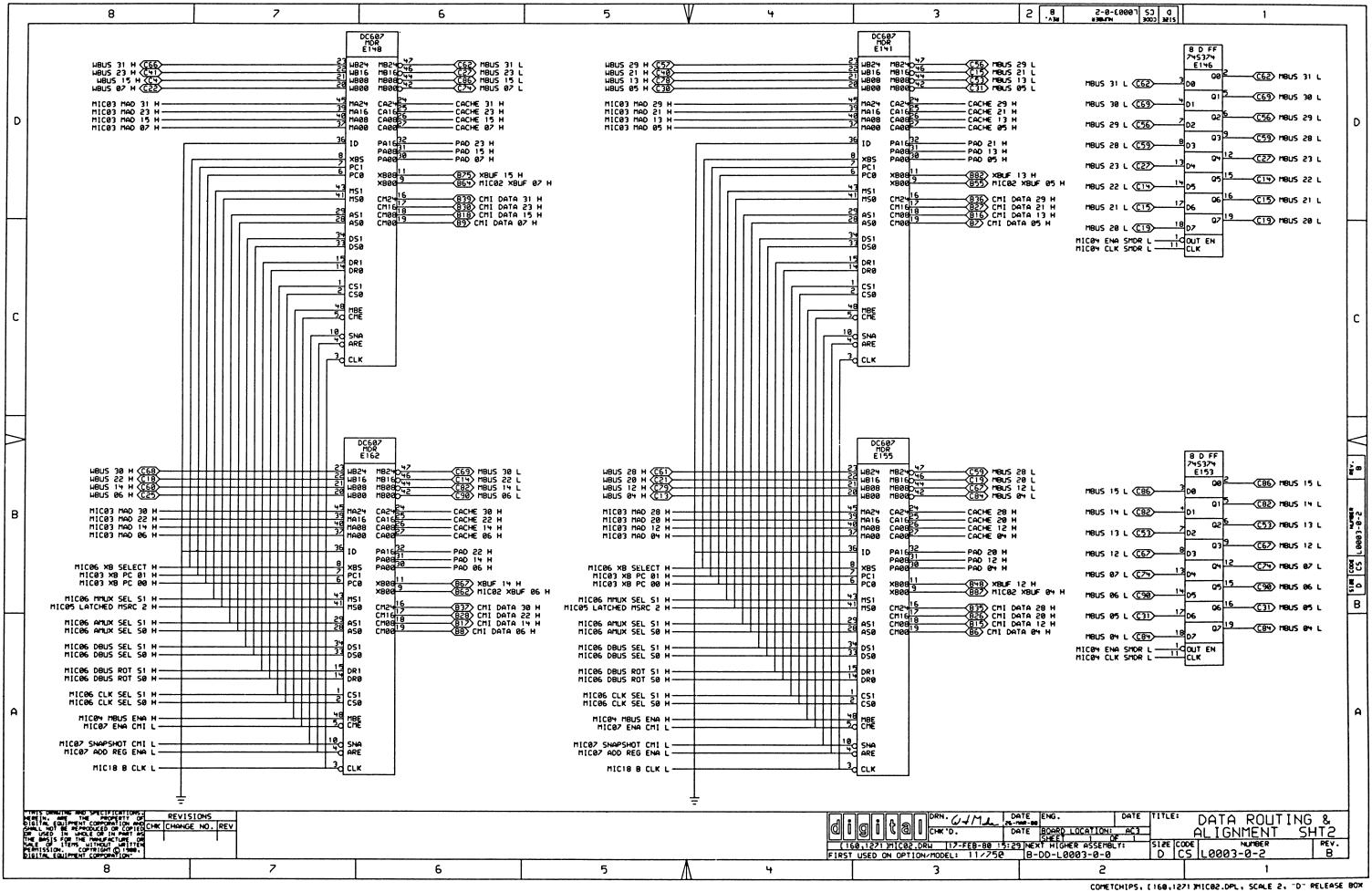
AUTOMATED BY PRTLST.3L(32) LINE ITEM DOCUMENT NUMBER	PART NUMBER	PARTS LIST DESCRIPTION	OTY PER VARIATION REFERENCE DESIGNATOR
1	5013693-00 1012784-00 1012084-01 1313580-00 1910532-00 1910534-00 1910542-00 1910547-00 1910541-00 1910541-00 1910957-00	DRILL & ETCH DRAWING .047 MFD	1 69
14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 23 24 24	1911641-00 1911712-00 1916310-00 1912096-00 1912097-00 1912388-00 1912389-00 1913746-00 1913340-00 1913493-00	SN 745257 MUX, QUAD 2 TO 1 74551 AND-OR GATE-INVERT D RAM, 256X1, TRI STATE XOR GATE, QUAD 2IN 745182 LOOK AHD CARRY GEN 74502 NOR GATE-QUAD 2IN, PO 74508 AND GATE-QUAD 2IN, PO DEC 74537 NAND GATE-QUAD 2IN 74532 OR GATE-QUAD 2IN 745241 OCTAL BUFFER, TRI-STA RAM 1KX1 16 PIN TT	E38 E3,E23,E25 E6,E27,E48,E59,E68,E98, CONT E105-E108,E111,E144,E145,E150, CONT E157,E159,E166 E18,E39,E60,E80 E26,E92 E112,E143 E96 E164 E88 E90 E22,E93 E22,E93 E22,E93 E27,E28,E49,E69,E97 E8-E16,E29-E37,E50-E58,E70-E78, CONT E117-E123,E129-E135 E2,E139,E146,E153,E160 E44,E84 E109,E110,E151,E152,E158,E165
25 25 26 26 27 27	1913671-00 1913839-00 1913888-00	745374 FF-D OCTAL TRISTATE 74L5165 SHIFT REG., BBIT DC 102A EQUALS CHECKER BBIT	5 E2,E139,E146,E153,E160 2 E44,E84 6 E109,E110,E151,E152,E158,E165
ENG! ECO NUMBER !REV !S	ASIC PART NO: LOOD ECTION A OF A ECTION. VARIATION IND [A] OO [B]	+>+!DRN: D.SIREEN !DAT	E: 31-MAY-79 D I G I T A L TITLE PARTS LIST
	[	RESP.ENG.: P.BINDER DATE	DOCUMENT NUMBER  31-MAY-79  +++++++++++  SIZE!CODE! NUMBER  REV
	[K] [L] [M] [N]	ASSEMBLY NUMBER:	DOCUMENT NUMBER: FILE NAME: EDIT *: -L0003-0-0 Z1258.PLS 11
"THIS DRAWING AND SPEC OR COPIED OR USED IN	CIFICATIONS HEREIN, A WHOLE OR IN PART AS	ARE THE PROPERTY OF DIGITAL EQUIPME	NT CORPORATION AND SHALL NOT BE REPRODUCED ALE OF ITEMS WITHOUT WRITTEN PERMISSION.

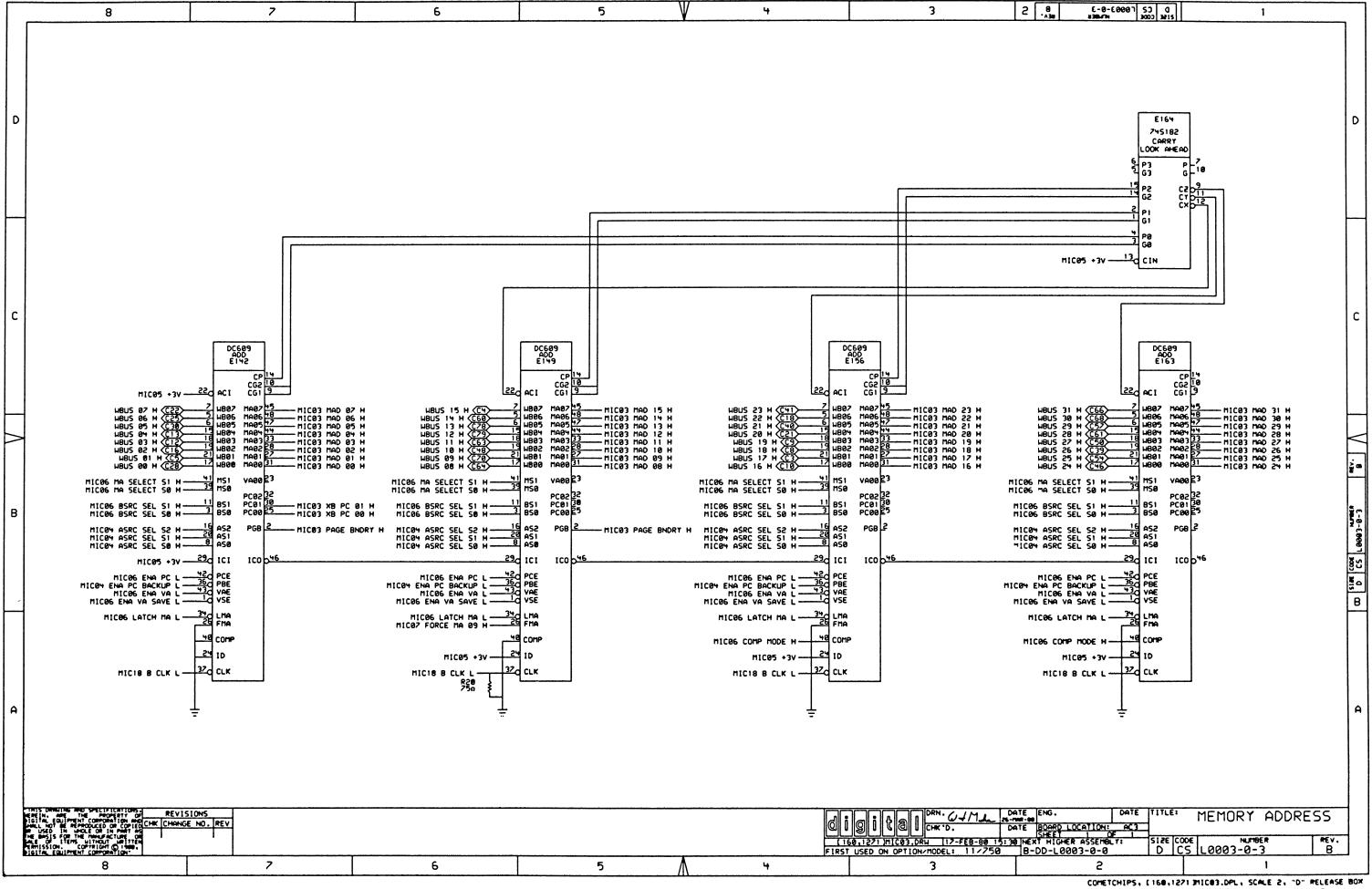
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LINE ITEM DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
28 28 29 29 30 30	1914085-00 1914086-00 1914681-00	745260 NOR GATE-DUAL,POS 74530 NAND GATE-POS BIN DC 607B BIPOLAR,LS,400-GATE	3 1 8	E45, E67, E86 E64 E140, E141, E147, E148, E154, E155,
31 31 32 32 33 33 34 34 35 35 36 36 37 37 38 38 39 39	1914683-00 1914697-00 1914698-00 1914699-00 1914700-00 1914701-00 1914702-00 1915193-00 1915697-00	DC 609E BIPOLAR, LS, 400-GATE DC 623C BIPOLAR, LS, 400-GATE DC 624E BIPOLAR, LS, 400-GATE DC 625B BIPOLAR, LS, 400-GATE DC 625B BIPOLAR, LS, 400-GATE DC 627B BIPOLAR, LS, 400-GATE DC 628B BIPOLAR, LS, 400-GATE LS244 DRIVER, LINE, OCTAL, T RAM 256X4 TRI-STATE	CONT  1 1 1 1 1 1 1 20	E140, E141, E147, E148, E154, E155, E161, E162 E142, E149, E156, E163 E103 E128 E127 E116 E104 E115 E99 E19-E21, E40-E42, E61-E63, E81-E83, E113, E114, E124-E126, E136-E138
40	1910537-00 1210711-02 9000024-01 1503121-00 1302379-00 9009185-00 1910544-00 1910878-00 1215924-00	74S11 AND GATE-TRIPLE 3INP /REPLACED BY 12-16988-02 EYELET, ROLLED FLANGE, .121 OD X 2N 2369 NPN 350MW SI N 75.0 .25 W 5.0 % CC JUMPER, WIRE, INSULATED, BLACK B 74S74 FF-D DUAL, EDGE TRIGG 7427 NOR GATE-TRIPLE 3IN SOCKET IC W/METAL CONT	CONT  1 12 14 1 1 2 18 CONT	Q1 R19-R21,R23 R22 E46 E43,E1 XE103,XE104,XE115,XE116,XE127, XE128,XE140-XE142,XE147-XE149, XE154-XE156,XE161-XE163
49 49 50 50	1215935-00 1215936-00	GASKET, THERMAL .50"X.80" HEAT SINK, FORCED CONVECTION	CONT 18 18	XE154-XE156, XE161-XE163

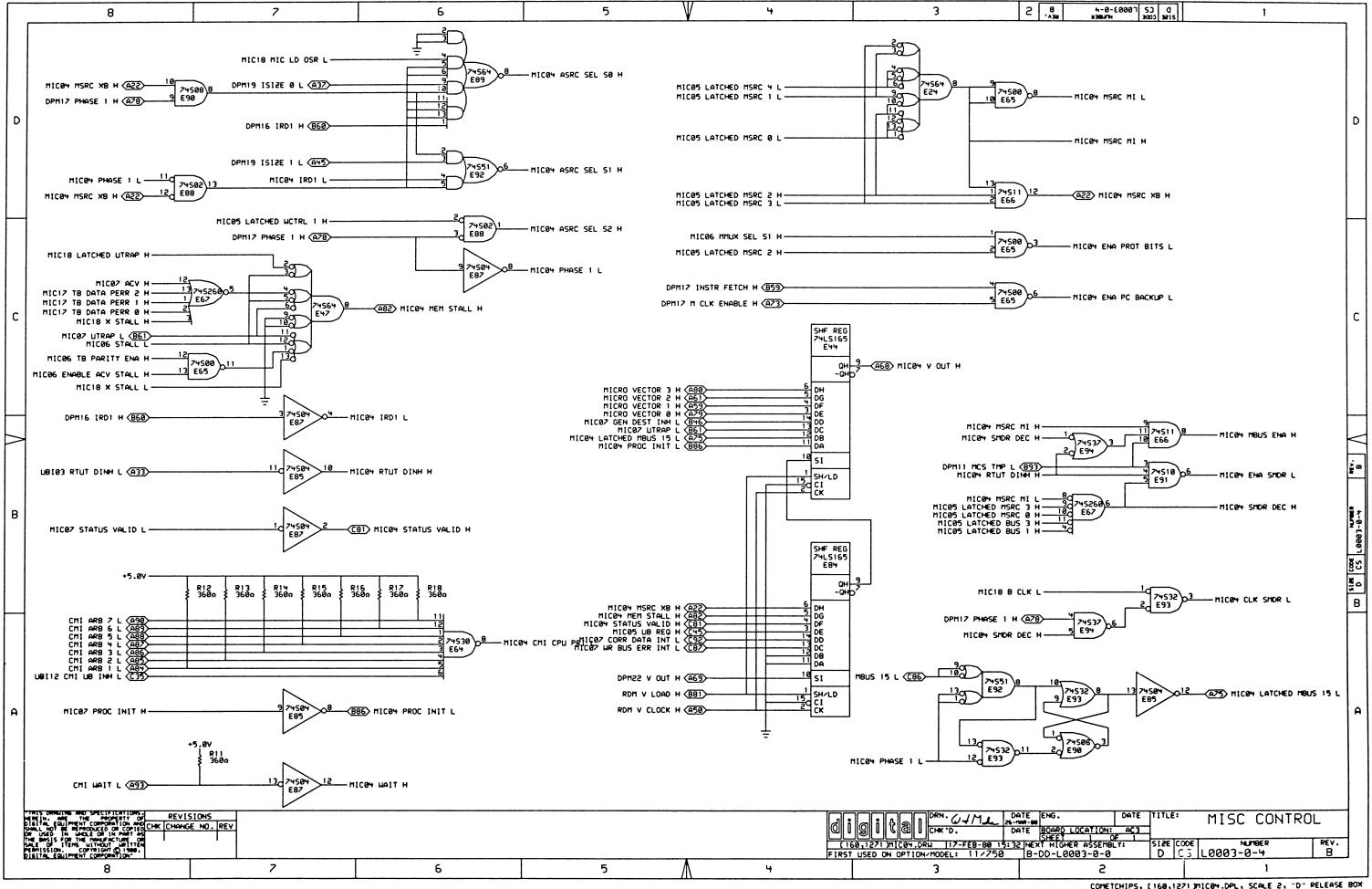
51 NOTE: SPARE I.C. LOCATIONS ARE E4.E17 52 NOTE: SOME MODULES WILL HAVE 10-05305 INSTEAD OF 10-12084-01

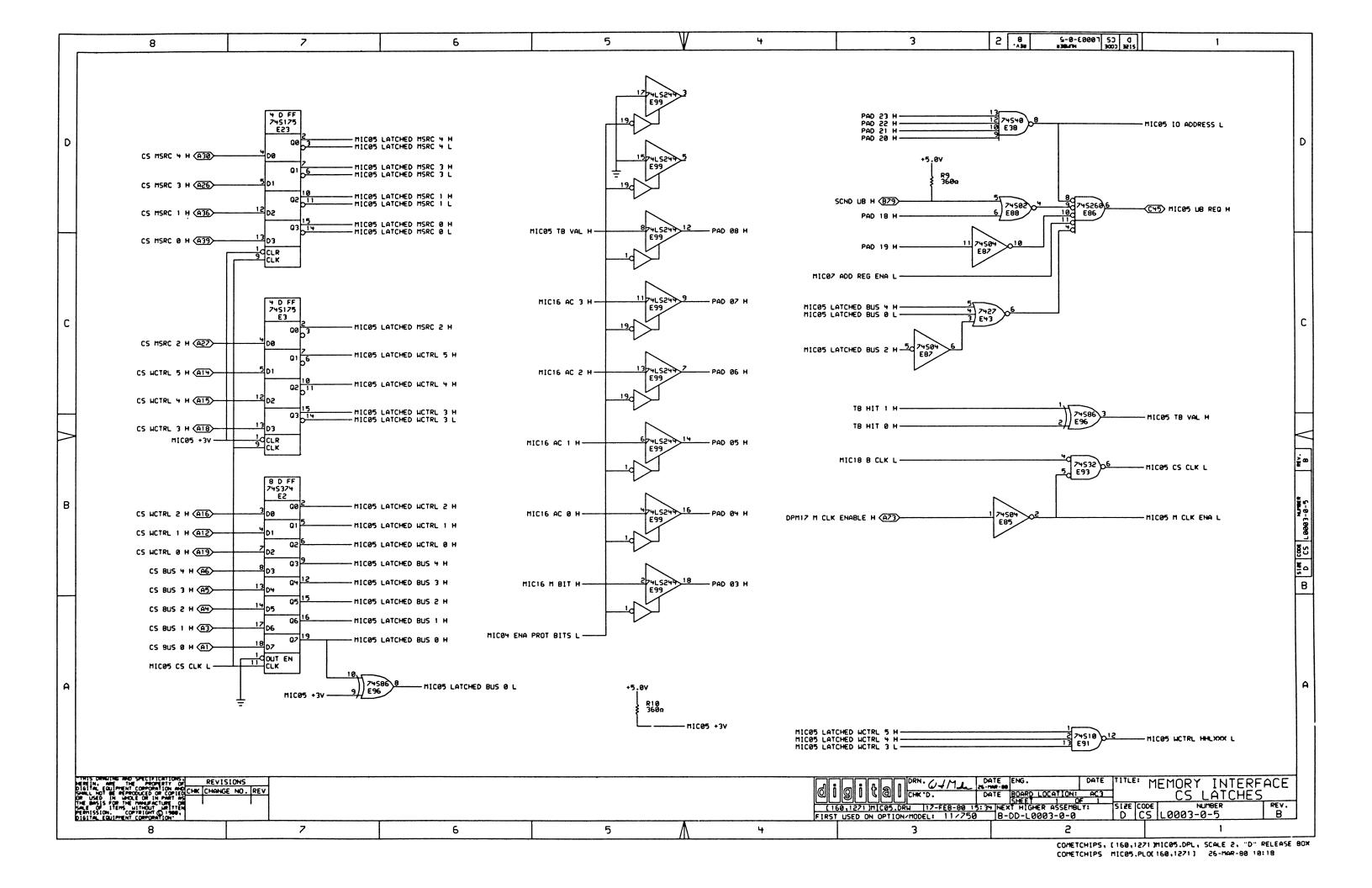
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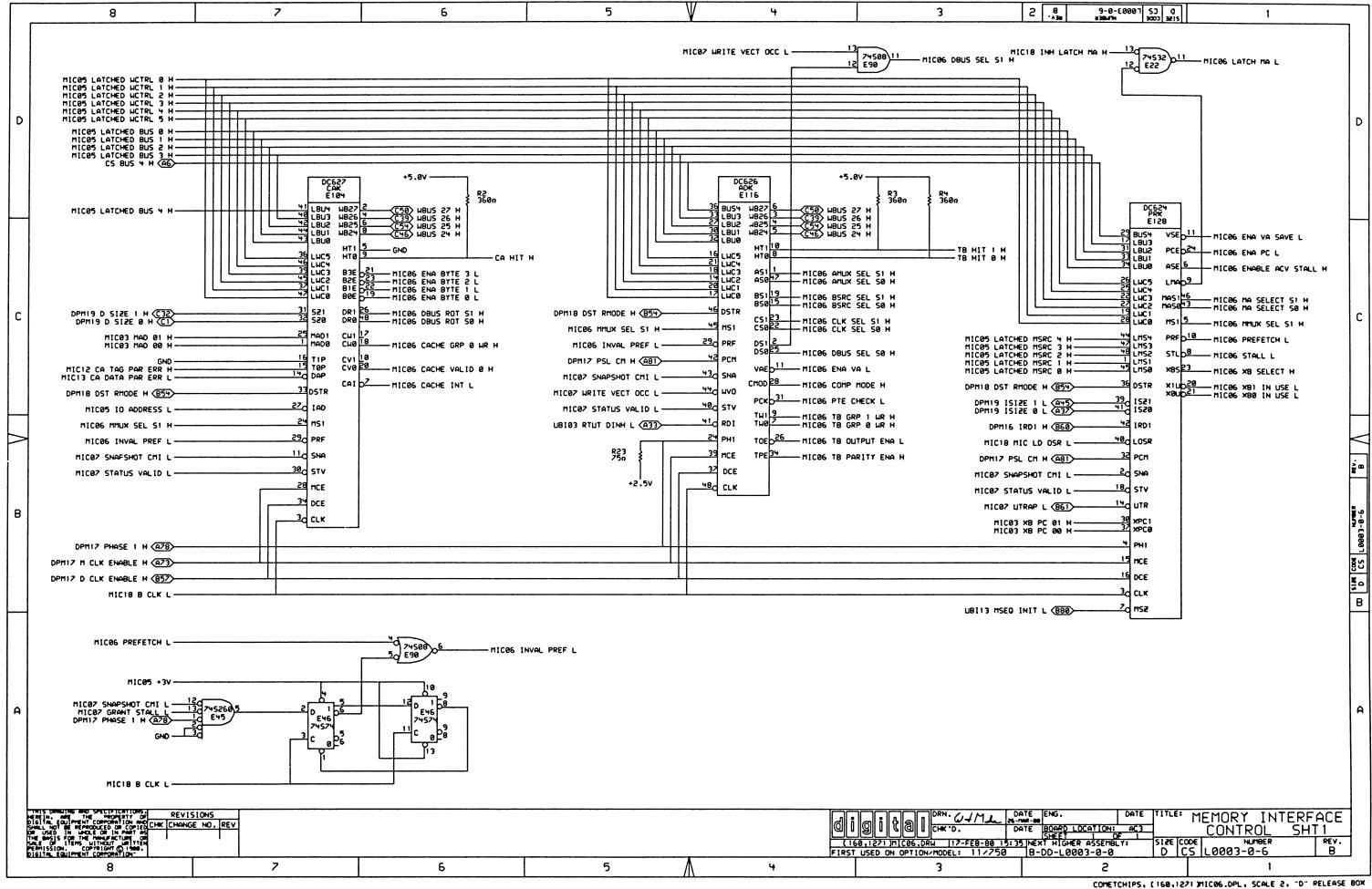


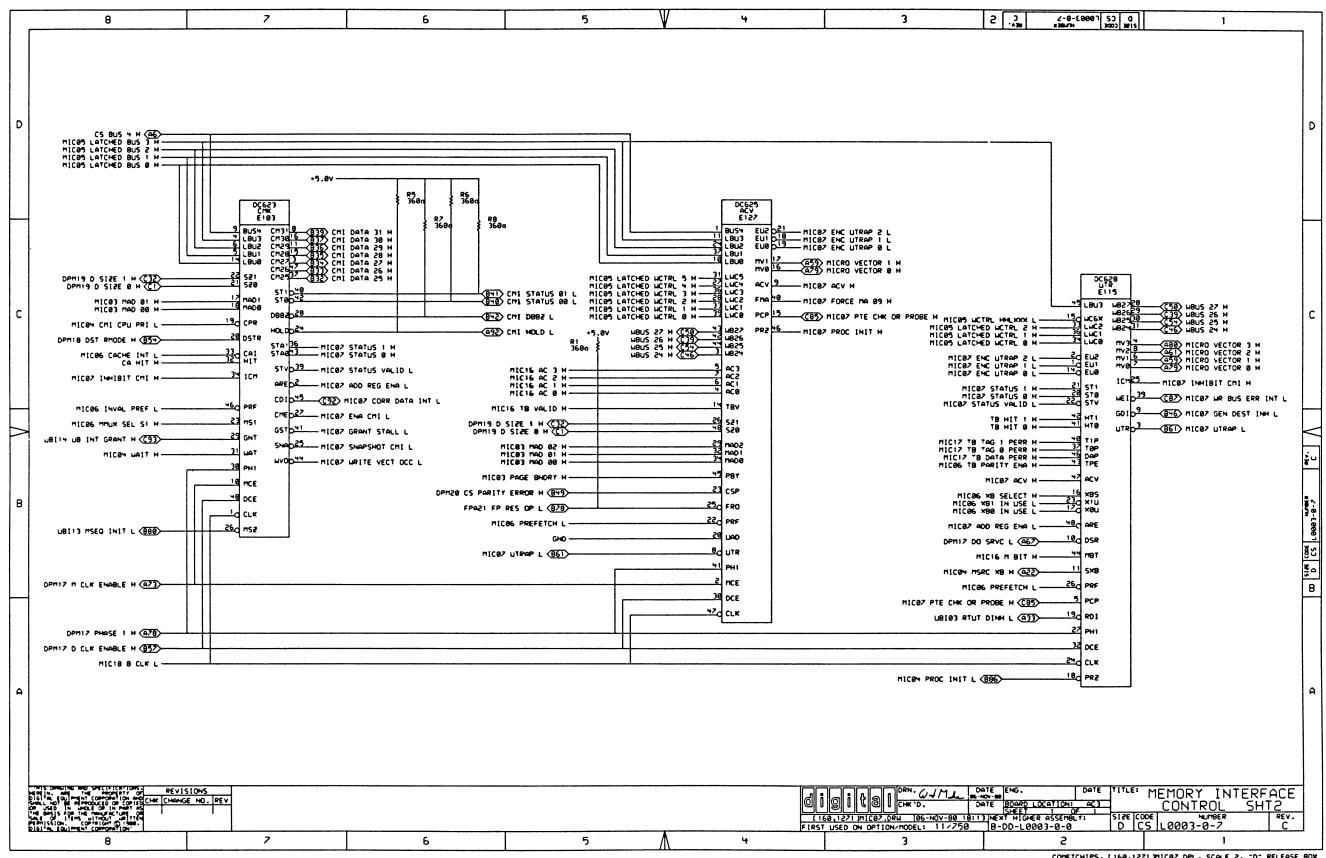


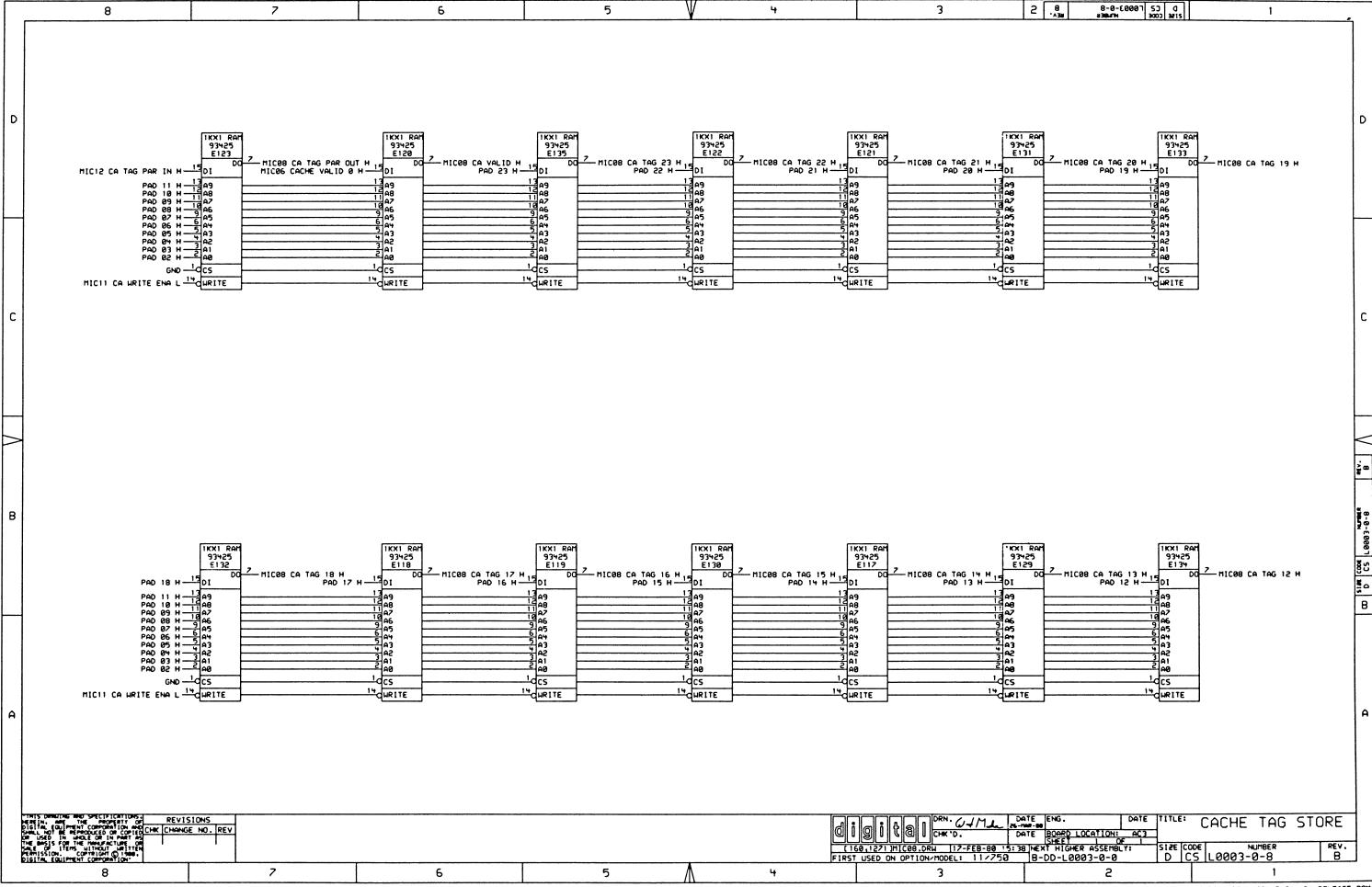


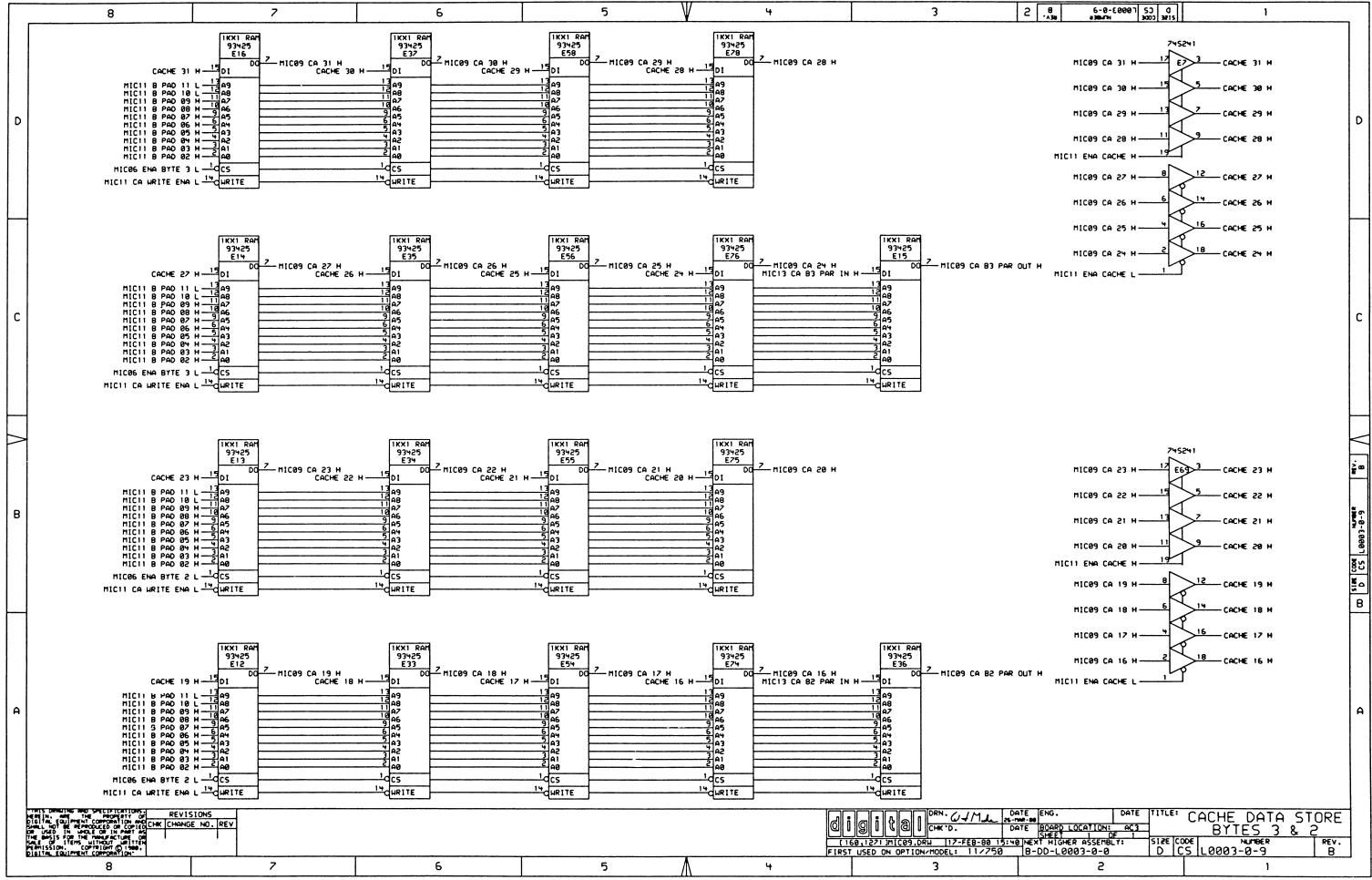


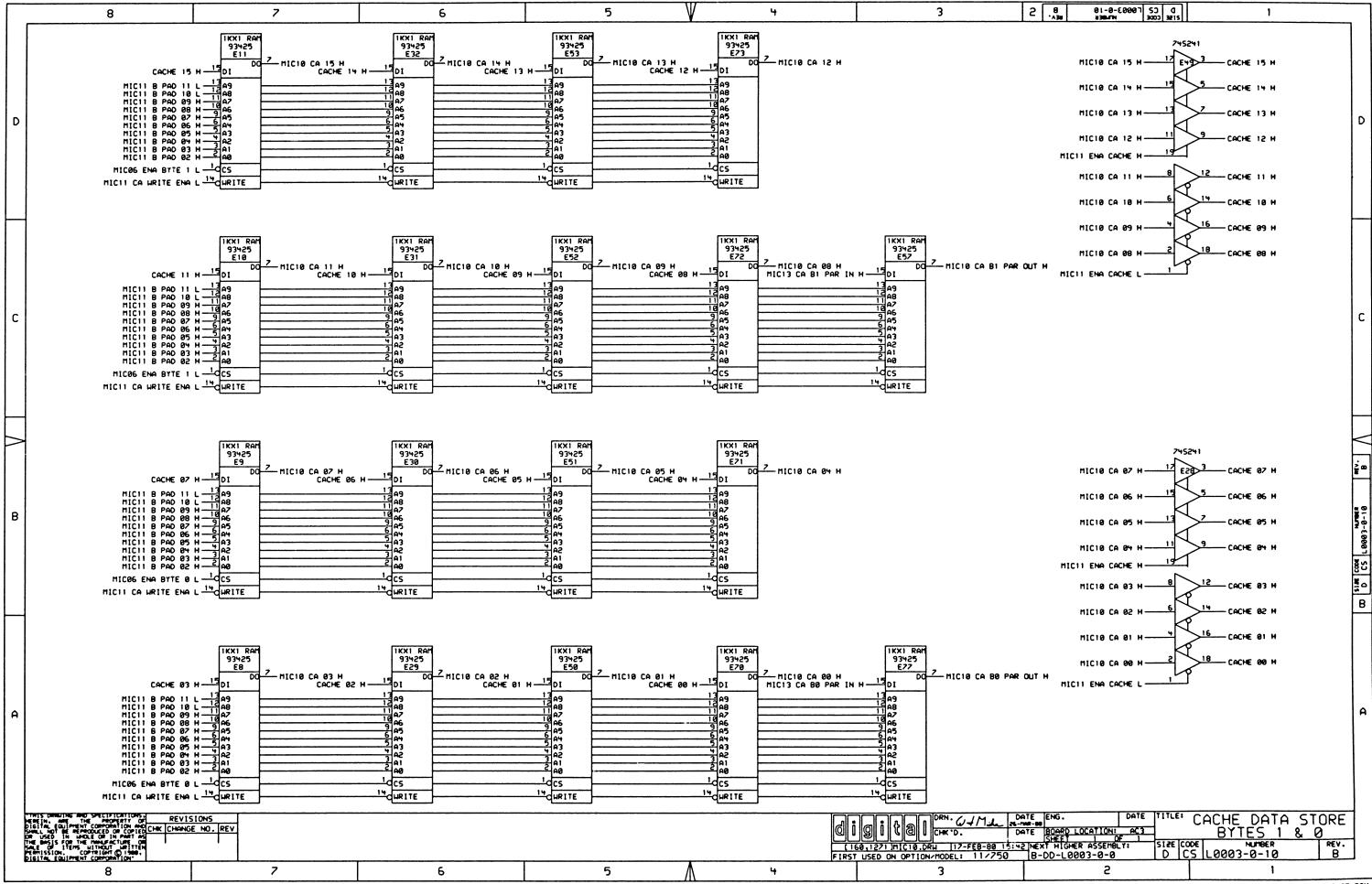


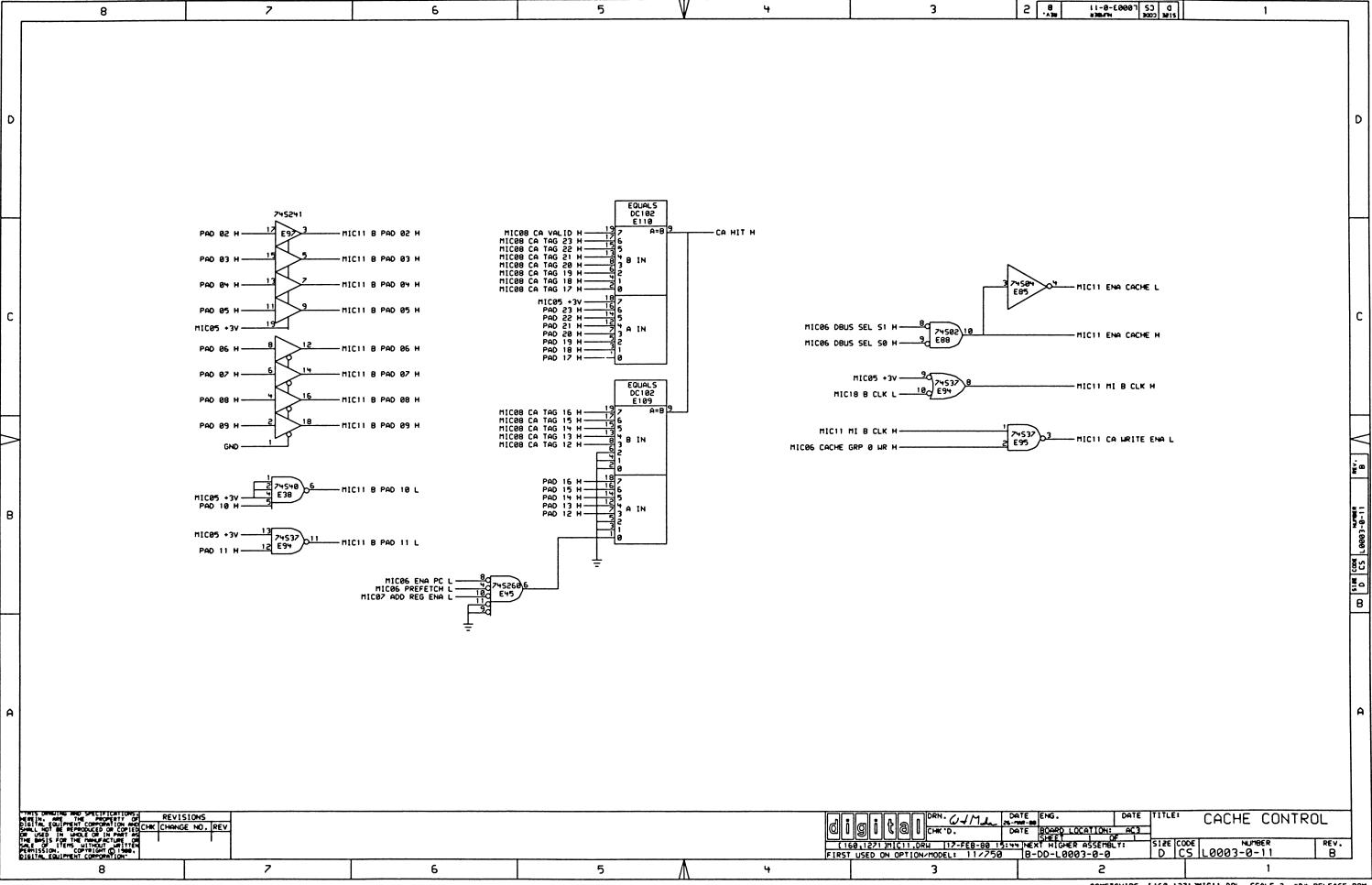


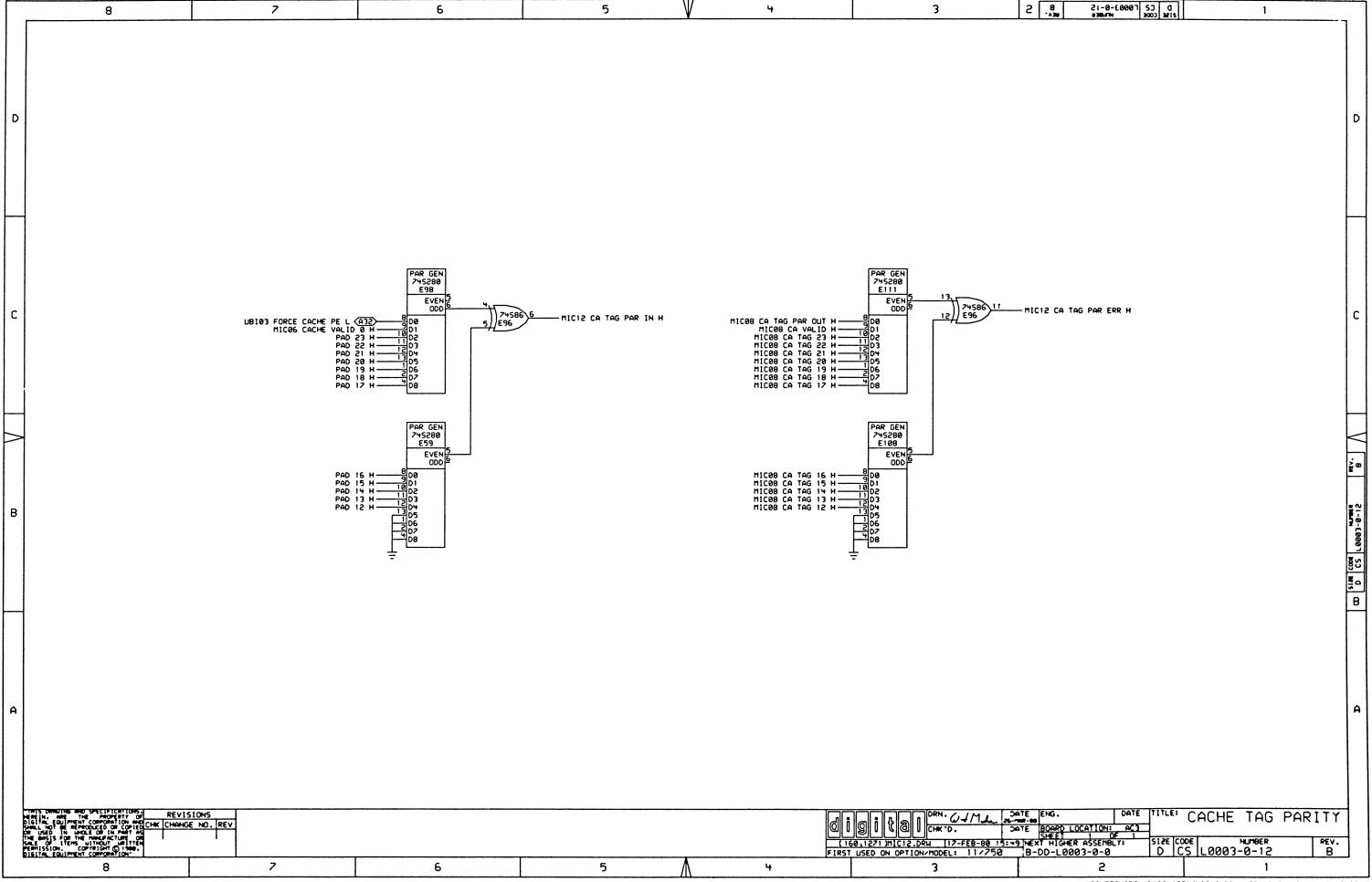


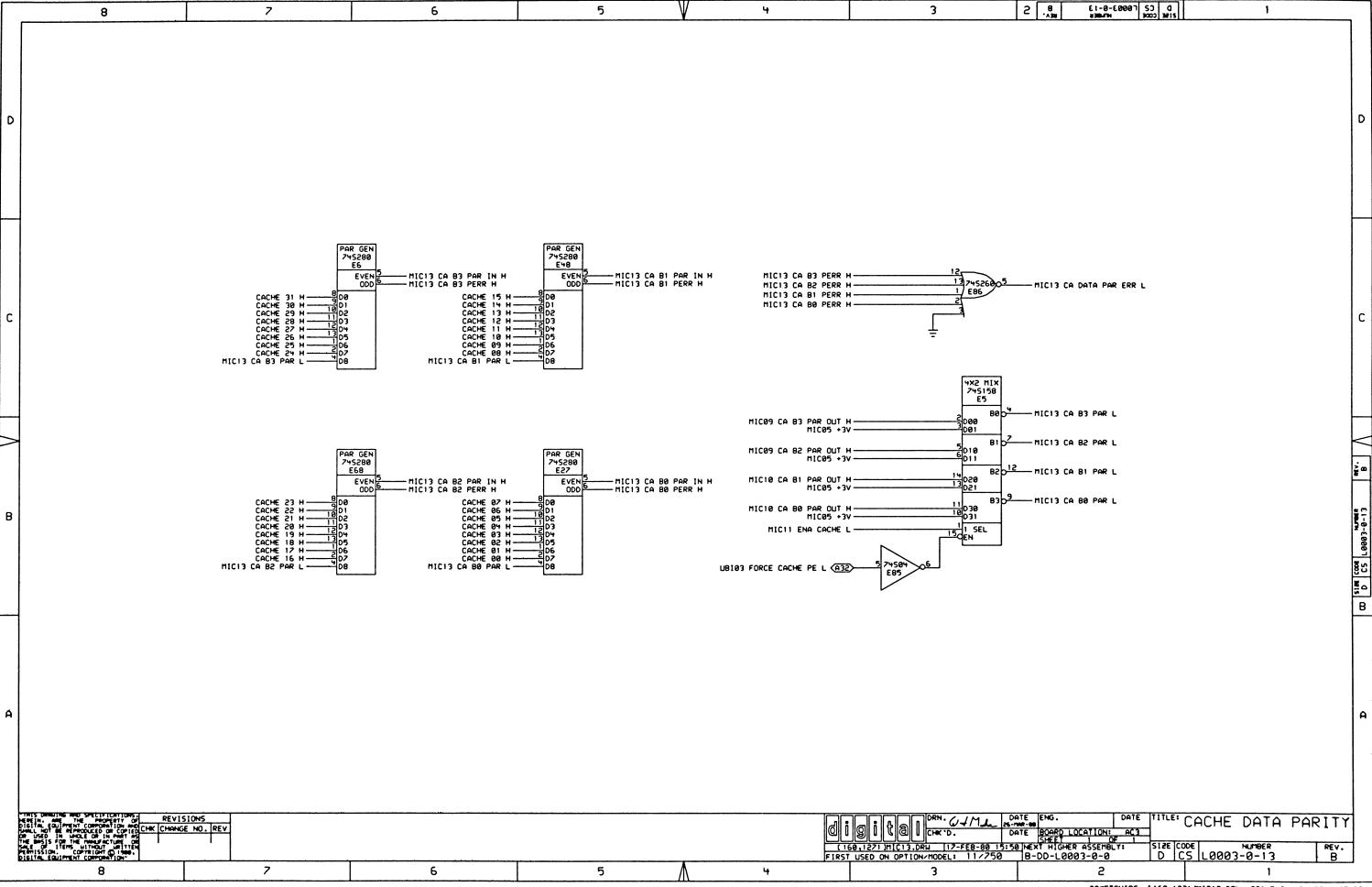


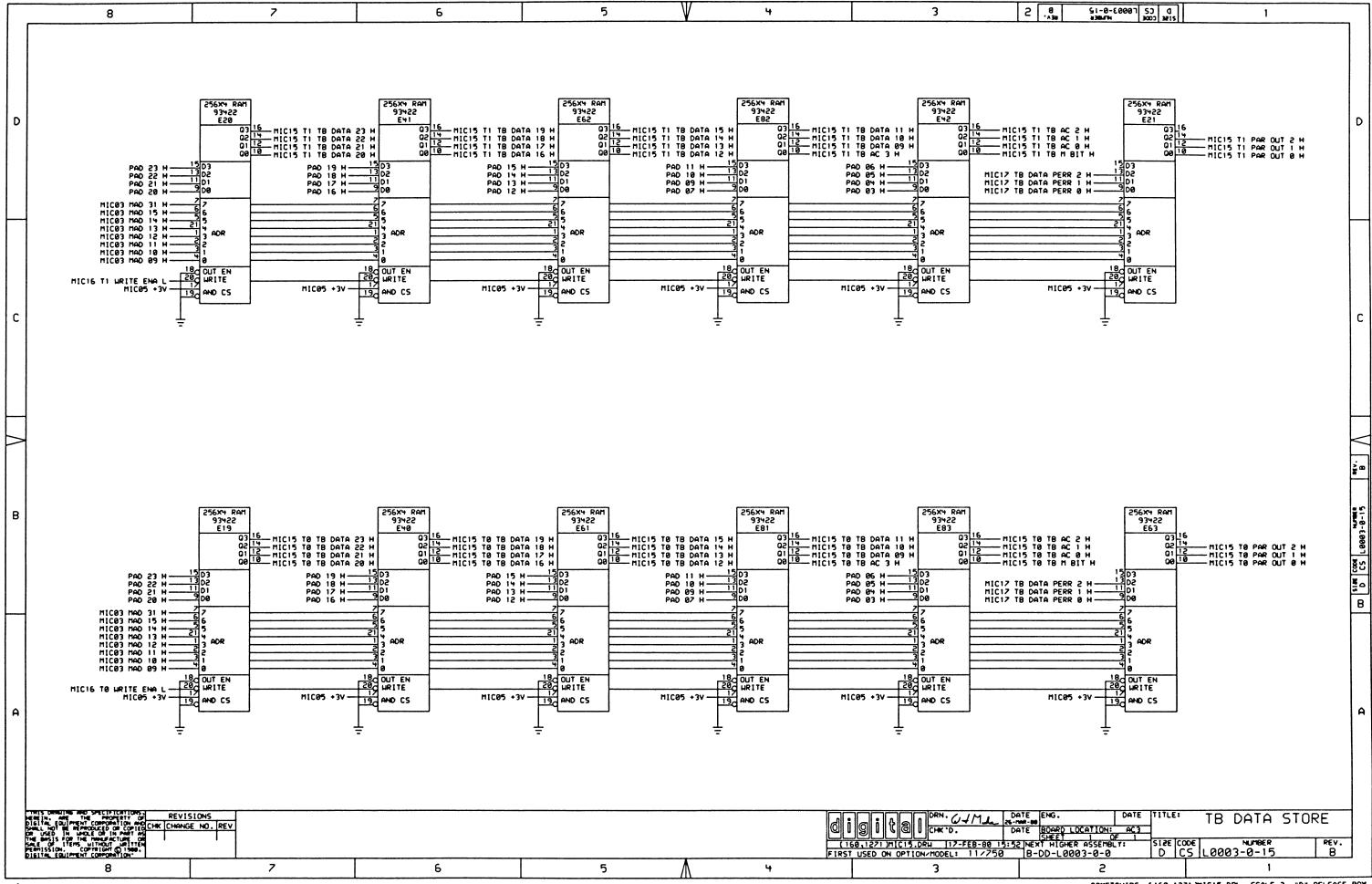


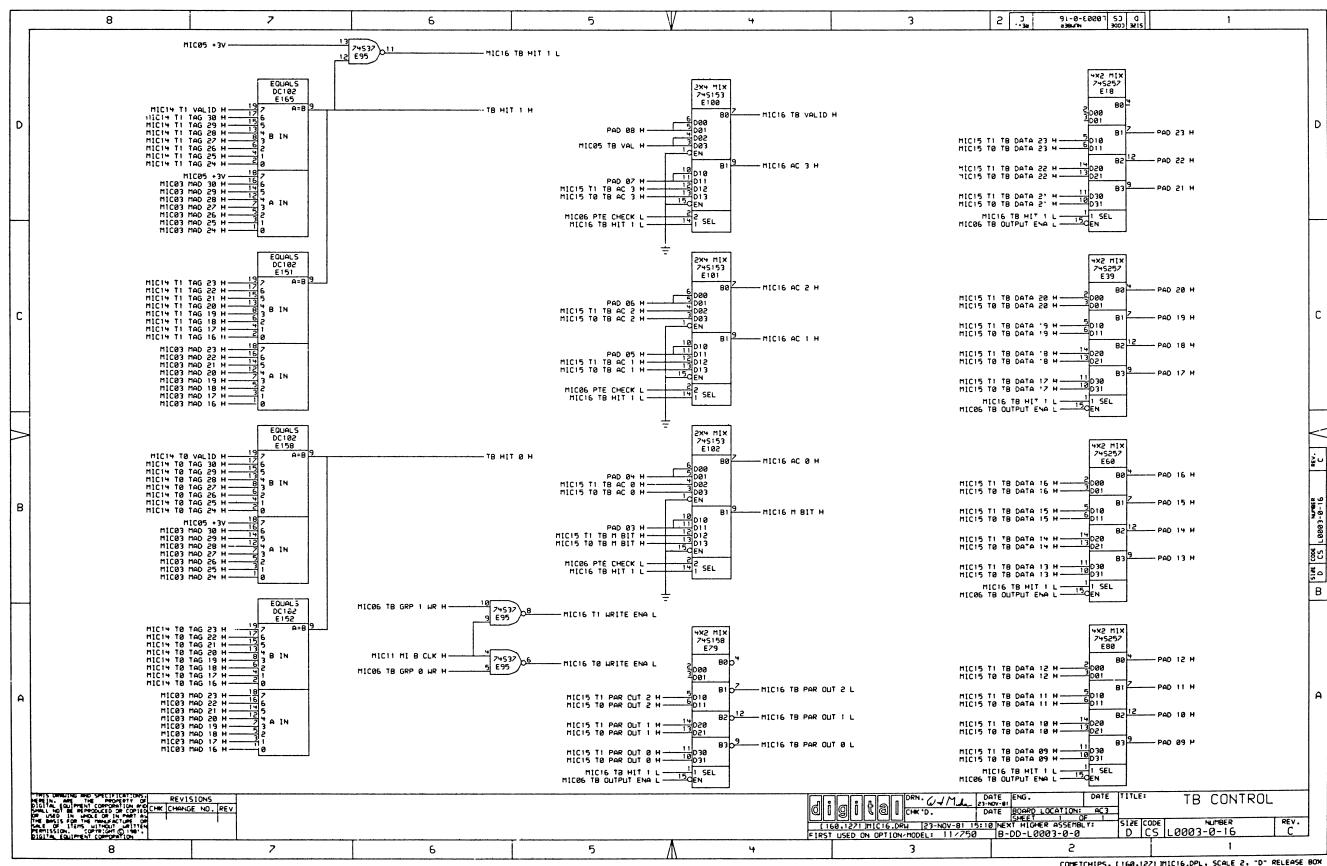


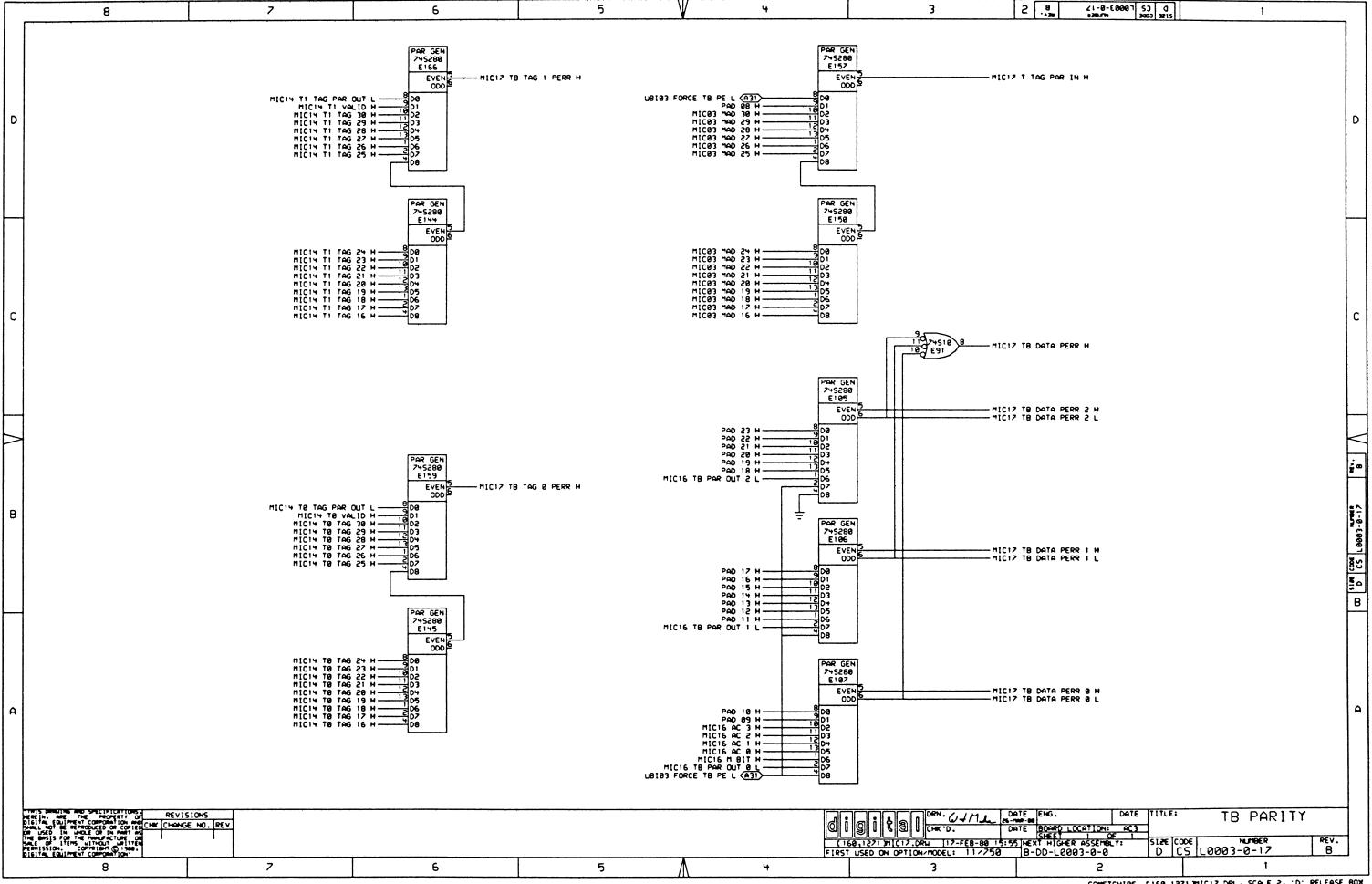


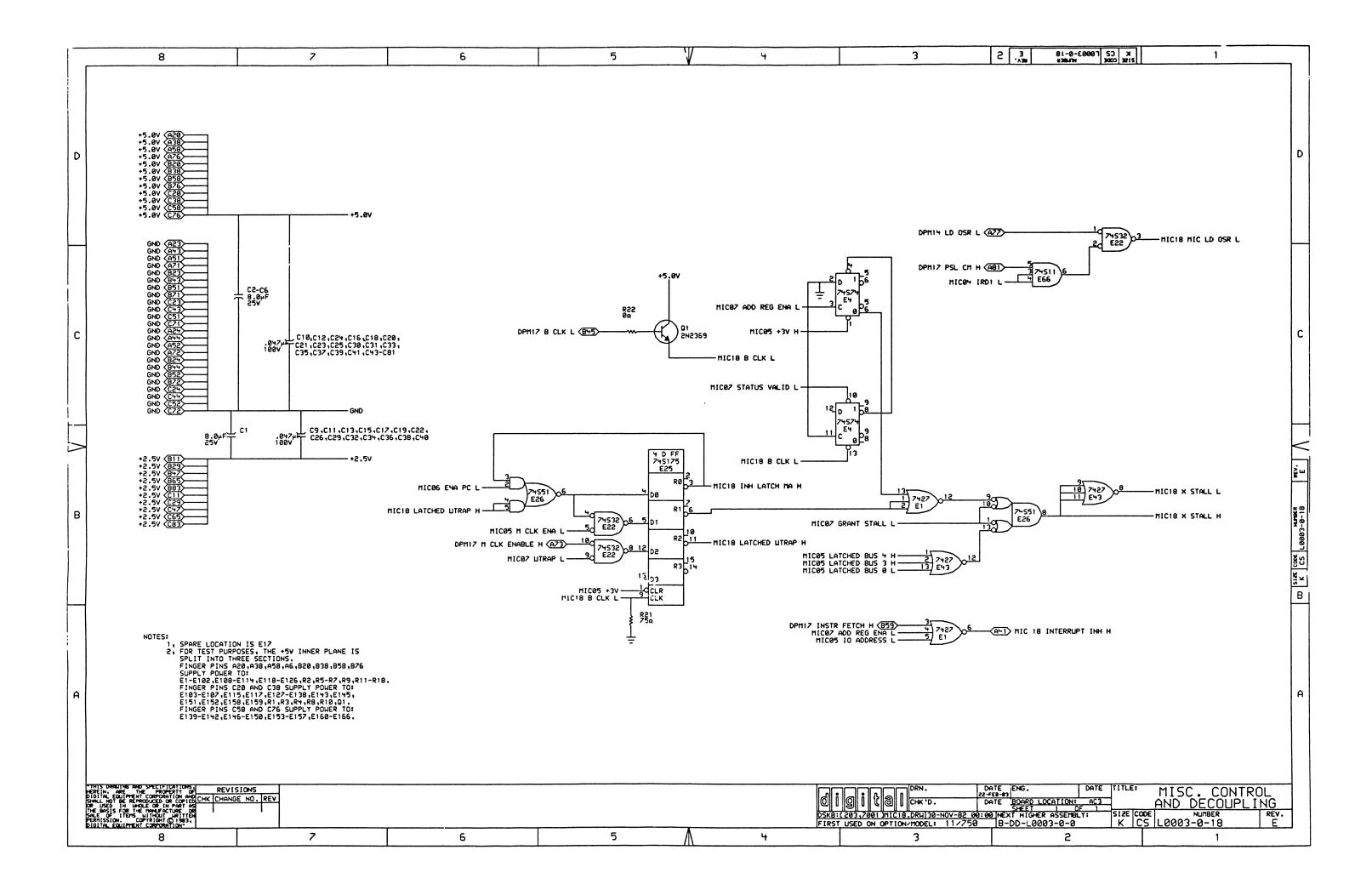










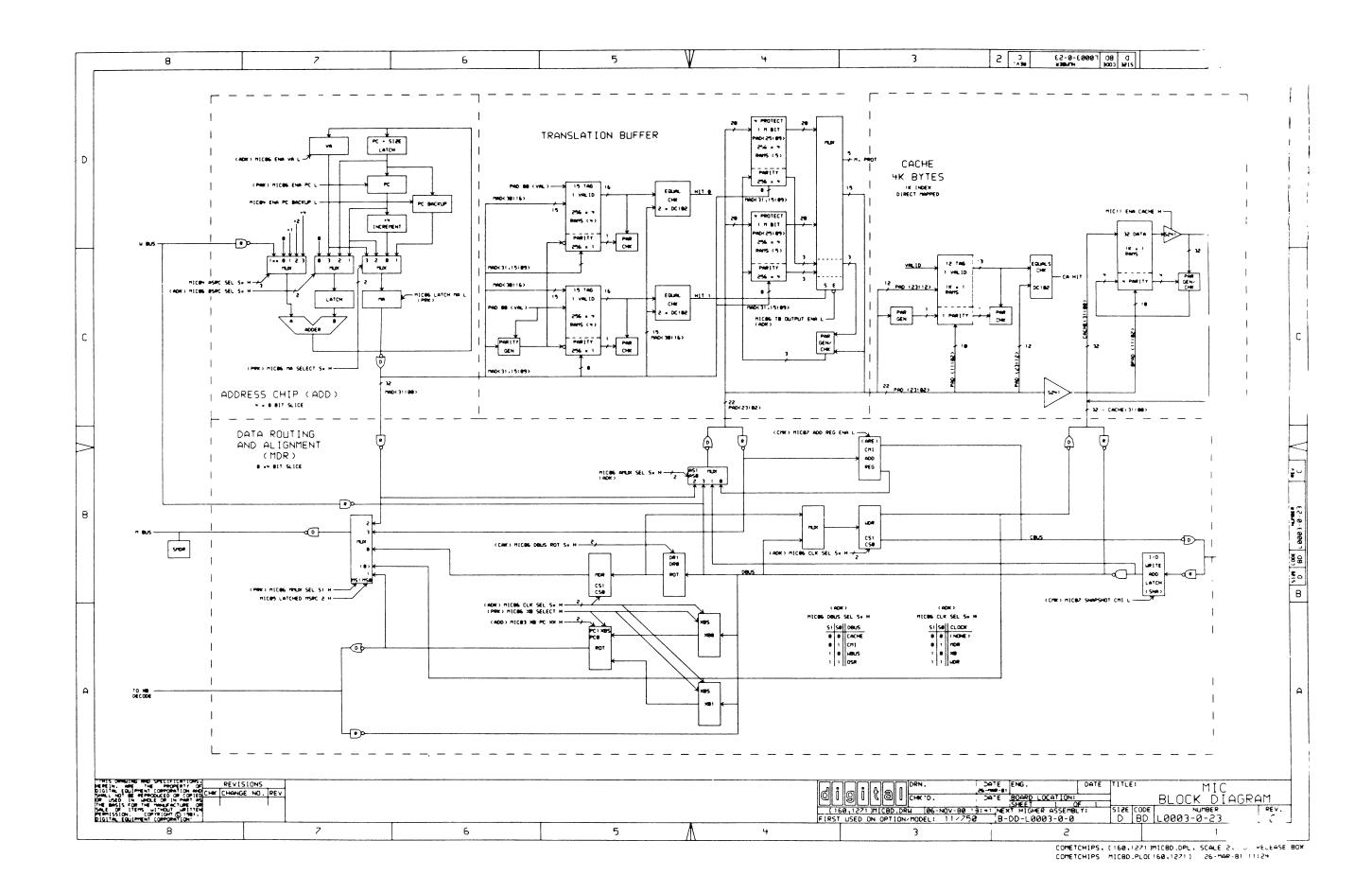


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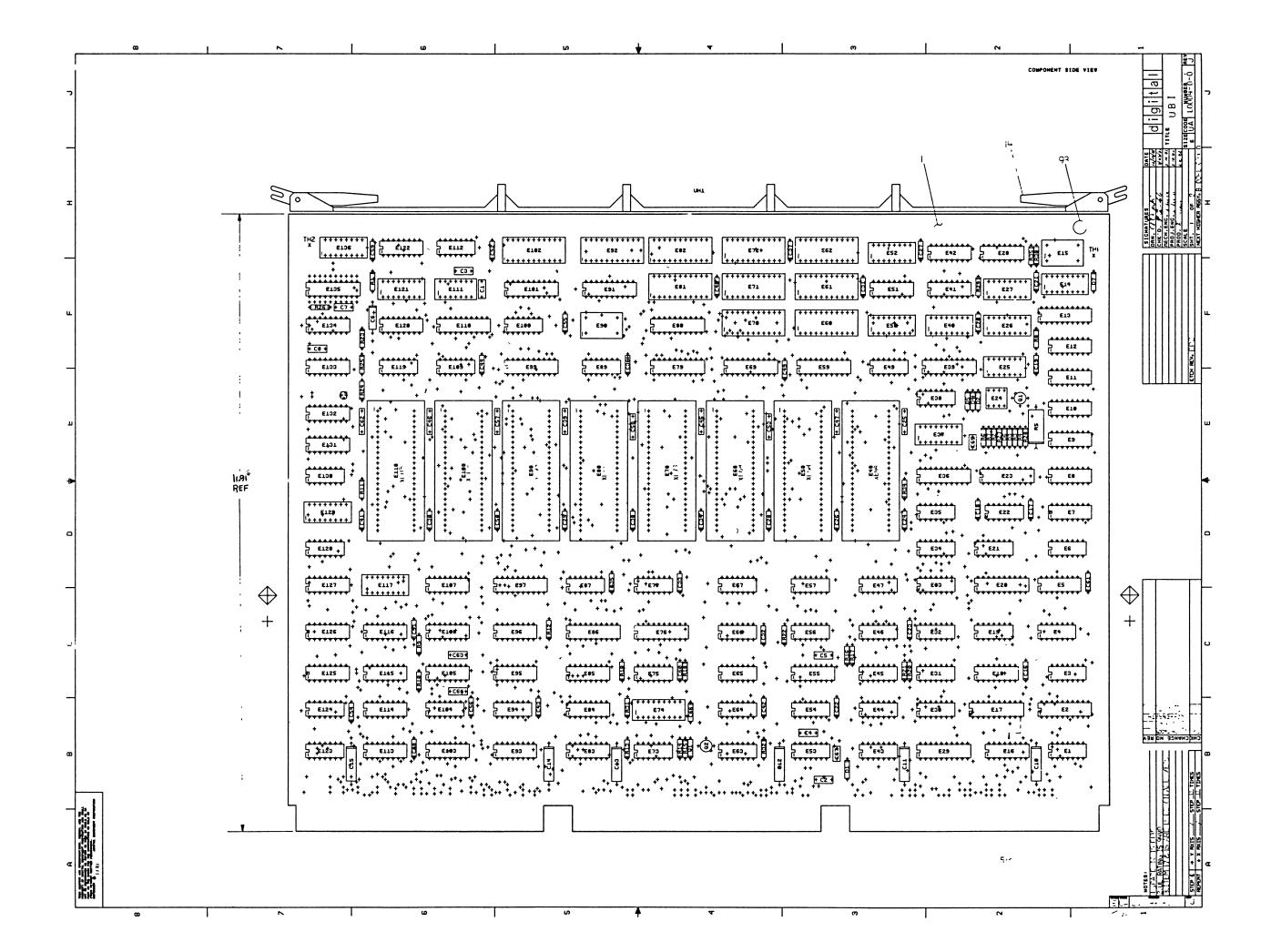


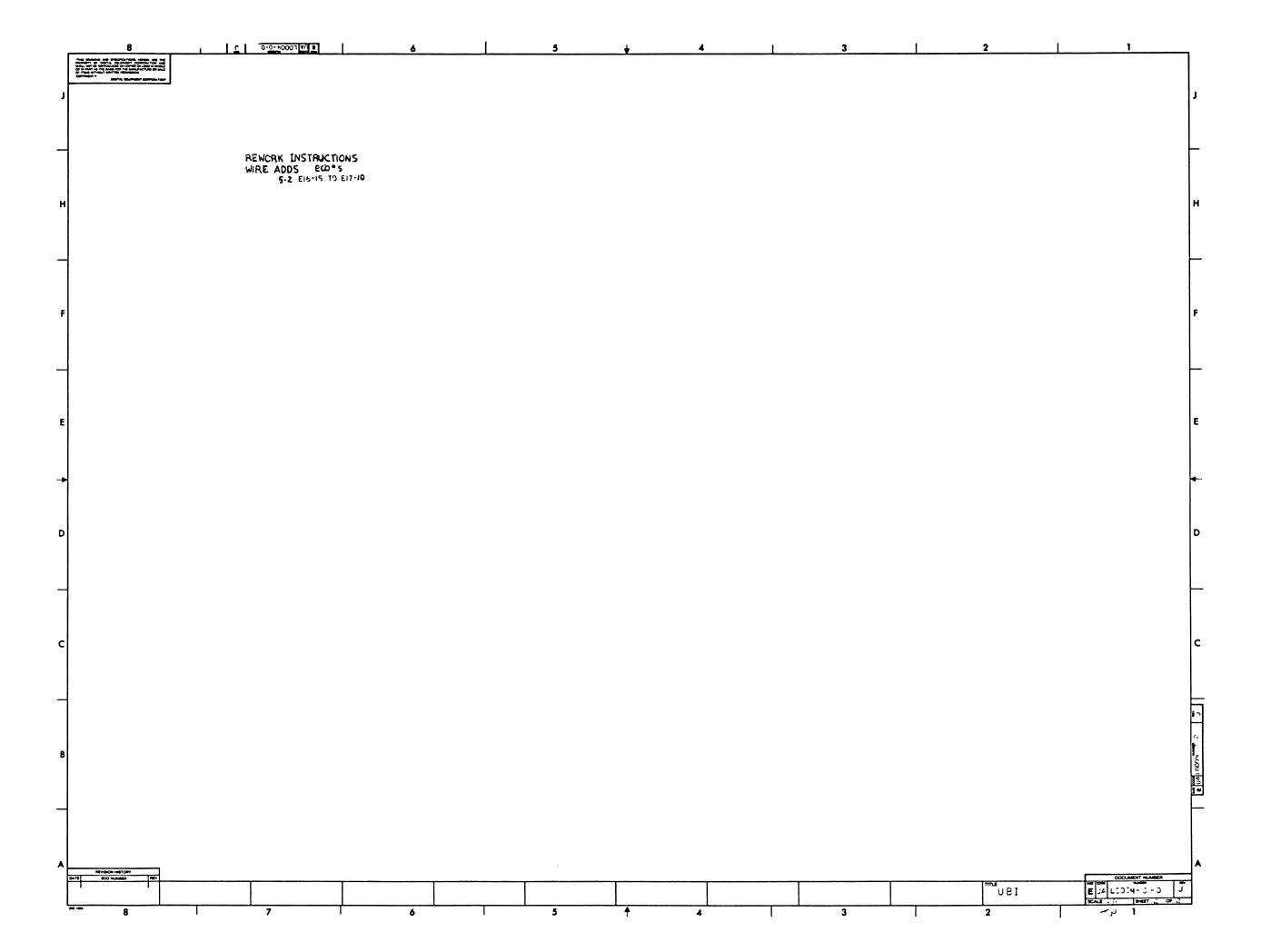
B DD 7-60007 REV. NUMBER DRAWING NO. NO. PART NO. **DESCRIPTION REVISIONS** MODULE REVISION CDEFH CDEFHU UBI DRAWING DIRECTORY B-DD-L0004-0 2 -UA-L0004-0-0 UBI UNIT ASSEMBLY CblElFlHJ UBI PARTS LIST CDEEF C-PL-L0004-0-DBP UBI DRILL & ETCH DRAWINGS CDDDDE 6 -MD-5013827-C-0 ETCHED BOARDS D D D D D EP2 5013827 UBI PC DESIGN DATA BASE CALDEC K-PC-LCOO4-C-DBC DDDDDEPZ UBI ETCH CUT DRAWINGS CDEFHJ E-EC-5013827-C-0 3 UBI DESIGN DATA BASE SUDS CDEFHU K-CS-LCCO4-O-DBS TOY OFFSET MEMORY C C C D D D D-CS-LC0C4-0-1 TIME OF YEAR CLOCK IciciciD C-CS-L0004-0-2 LATCH-PAR-GEN HELP- SIGNALS CDDE 1-CS-LC004-0-3 UBUS RESISTOR PACKS -CS-L0C04-0-4 CUI - UBUS ADDRESS 1 OF 2 C-CS-L0004-0-5 ICICICIC CUI - UBUS ADDRESS 2 OF 2 C-CS-L0004-0-6 ICICICIC DATA PATH ICICICIC C-CS-L0004-0-7 1 CCCC CUI MAP C-CS-L0004-0-8 1 CUI MAP DECODE TC/C/C/C T-CS-L0004-0-9 Icicidid D-CS-LC004-0-10 1 CONTROL LOGIC D-CS-L0004-0-11 CUI CONTROL ROM CONSOLE INTERFACE C D D D D D D-CS-L0004-0-12 CCDDD UBUS CONTROL D-CS-L0004-0-13 AC - DC LC MSEQ INIT D-CS-LC004-C-14 CcDEFH INT & ID LOGIC RCM INTERFACE D-CS-LC004-C-15 CCCDDD FORWARD REFERENCE D-CS-10004-0-16 미메니니 **NOTES:** \* CONTROL SOURCE IS THE SUDS DATA BASE тwoo1 Т**w**ØØ3 Т**w**ØØ4 Т**w**Ø05 NO CONTROLLED PAPER ORIGINALS EXIST ALL DOCUMENTATION WAS RELEASED AT REVISION 'C' 6-80 9-80 6-81 7-81 TITLE **USED ON OPTION/MODEL** DRN. J. CASEY 'THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-11/750 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL UBI CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J.CASEY PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE DD NUMBER REV. ENG. S. SITTH ITEMS WITHOUT WRITTEN PERMISSION. L0004-0 J COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION PROD. V. PARIER SHĖET 🚶 OF

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B DD size code REV. NUMBER DRAWING NO. OF SHTS. PART NO. **DESCRIPTION REVISIONS** D-CS-L0004-0-17 FORWARD REFERENCE CCCDDD CDDEFF D-CS-L0004-0-18 FORWARD REFERENCE D-CS-L0004-0-19 FORWARD REFERENCE  $C \subset C \subset C$ D-BD-L0004-0-20 UBI BLOCK DIAGRAM CCCCC K-MP-LC004-0-21 26 UBI MICROCODE LISTING  $C \subset C \subset C$ K-MC-L0004-0-0 UBI MICROCODE TAPE NOTES: \* CONTROL SOURCE IS THE SUDS DATA BASE REV. REVISIONS CHG NO. NO CONTROLLED PAPER ORIGINALS EXIST ALL DOCUMENTATION WAS RELEASED AT REVISION 'C' DRN. J. CASEY USED ON OPTION/MODEL 11/750 TITLE 'THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D UB I NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J. CASEY PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZÉ CODE DD NUMBER ENG. S. SMITH REV. ITEMS WITHOUT WRITTEN PERMISSION. L0004-0 PROD. V. PARKER COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION SHEET 2 OF 2

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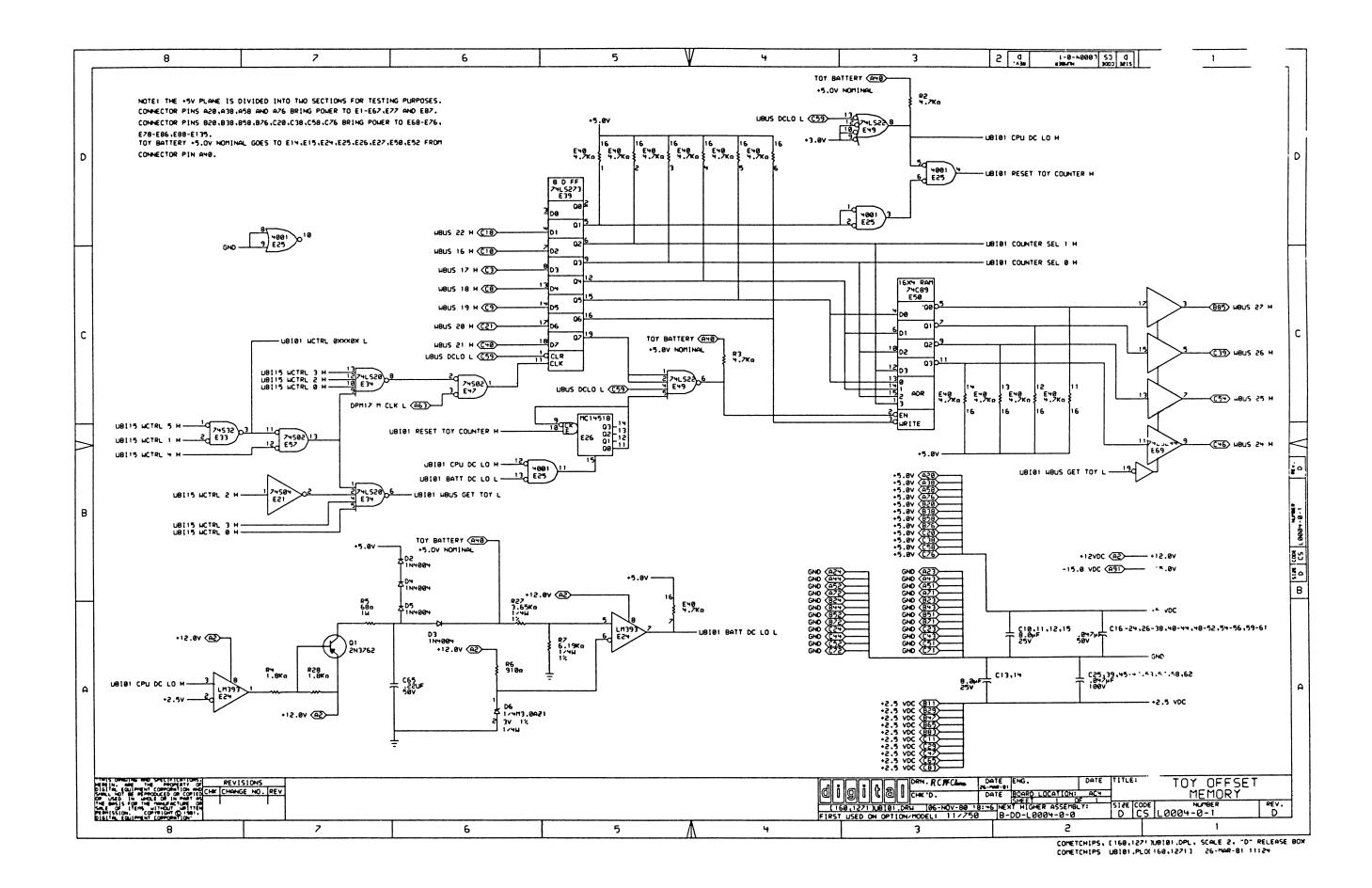
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1-0-5013827-0-0 1-0-5013827-0-	1105871-01 1210711-02 1211164-04 1215924-00	CIRCUT BOARD (PCS) 150.0 MMF 100V 5%200PPM MICA 330.0 MMF 100V 5%200PPM MICA 470.0 MMF 100V 5%200PPM MICA 1000.0 MMF 250V 20% Y5F DISC 8 MFD 25V +75-10% AL EL .58 MFD 100V 10% S.TANT .22 MFD 50V 10% CER .047 MFD 50V +80-20% CER .01 MFD 50V 10% CER 1N 746A VZ= 3.3 5% 1N 4004 PIV=400 I= 1A DO41 SP 1/4M3.0AZ1 - 3.0 1% .25W N /REPLACED BY 12-16988-02 *** THIS ITEM IS NOT USED *** SKT,IC 48PIN DIP GOLD PLATE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,C66 58,XE68,XE78,XE88,XE98,
17	1215935-00 1215936-00 1300005-04 1300005-07 1300316-00 1300365-00 1300398-00 1300432-00 1300394-00 1305346-00 1301322-00	GASKET, THERMAL .50"X.80" HEAT SINK, FORCED CONVECTION R NETWORK 15-470	8 6 1 E37 1 E40	::118 ::-R19,R22,R29,R30,R31
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INITIAL	ON.VARIATION INDE	CHK'D: E.T.GERRY DATE DES.ENG: S.SMITH DATE	E: 04-MAY-79 ++++++++++++++++++++++++++++++++++++	
LL TWOOS F [C] [C] [E] [F] [H] [K] [M] [N]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MFG.ENG.: VANCE PARKER DATE ASSEMBLY NUMBER:	E: 04-MAY-79   +++++++++++++++++++++++++++++++++++	UMBER REV  0004-0-0BP F  1LE NAME: EDIT #  1256F.PLS 20
"THIS DRAWING AND SPECIFIC OR COPIED OR USED IN WHOL	CATIONS HEREIN, AF LE OR IN PART AS T COPYRIGH	RE THE PROPERTY OF DIGITAL EQUIPME THE BASIS FOR THE MANUFACTURE OR S HT (C) 1982. DIGITAL EQUIPMENT COP	ENT CORPORATION AND SHALL SALE OF ITEMS WITHOUT WRIT RPORATION	NOT BE REPRODUCED TEN PERMISSION.

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	1911641-00 1911675-00 1911712-00 1912389-00 1912389-00 1912646-00 1912799-00 1912812-00 1912815-00 1912863-00 1912863-00 1913840-00 1913871-00 1913671-00 1913671-00 1914685-00 1914685-00	SN 745257 MUX, QUAD 2 TO 1 745138 DECODER/DEMUX 3-8 LIN 74551 AND-OR GATE-INVERT D 74502 NOR GATE-QUAD 2IN, PO 74508 AND GATE-QUAD 2IN, PO LS253 MUX 1 OF 4 (DUAL) LS20 NAND-GATE-QUAD 2IN, P LS20 NAND GATE-DUAL 4IN, P LS20 NAND GATE-DUAL 4IN, P LS30 NAND GATE-SINGLE 8IN LS83 ADDERS-4BIT LS273 FF-D OCTAL H/CLEAR 74532 OR GATE-QUAD 2IN 745374 FF-D OCTAL TRISTATE LS165 SHIFT REG., SBIT 745374 FF-D	0	E28, E41, E42, E51 E73, E128 E34, E13, E129, E135 E39 E39 E39 E33 E76 E2, E13, E17, E20, E23, E29, E36 E1, E1 E1, E24 E6, E63, E112 E56, E63, E112 E56, E68, E78, E88 E108, E118 E58, E68, E78, E88 E58, E68, E78, E88
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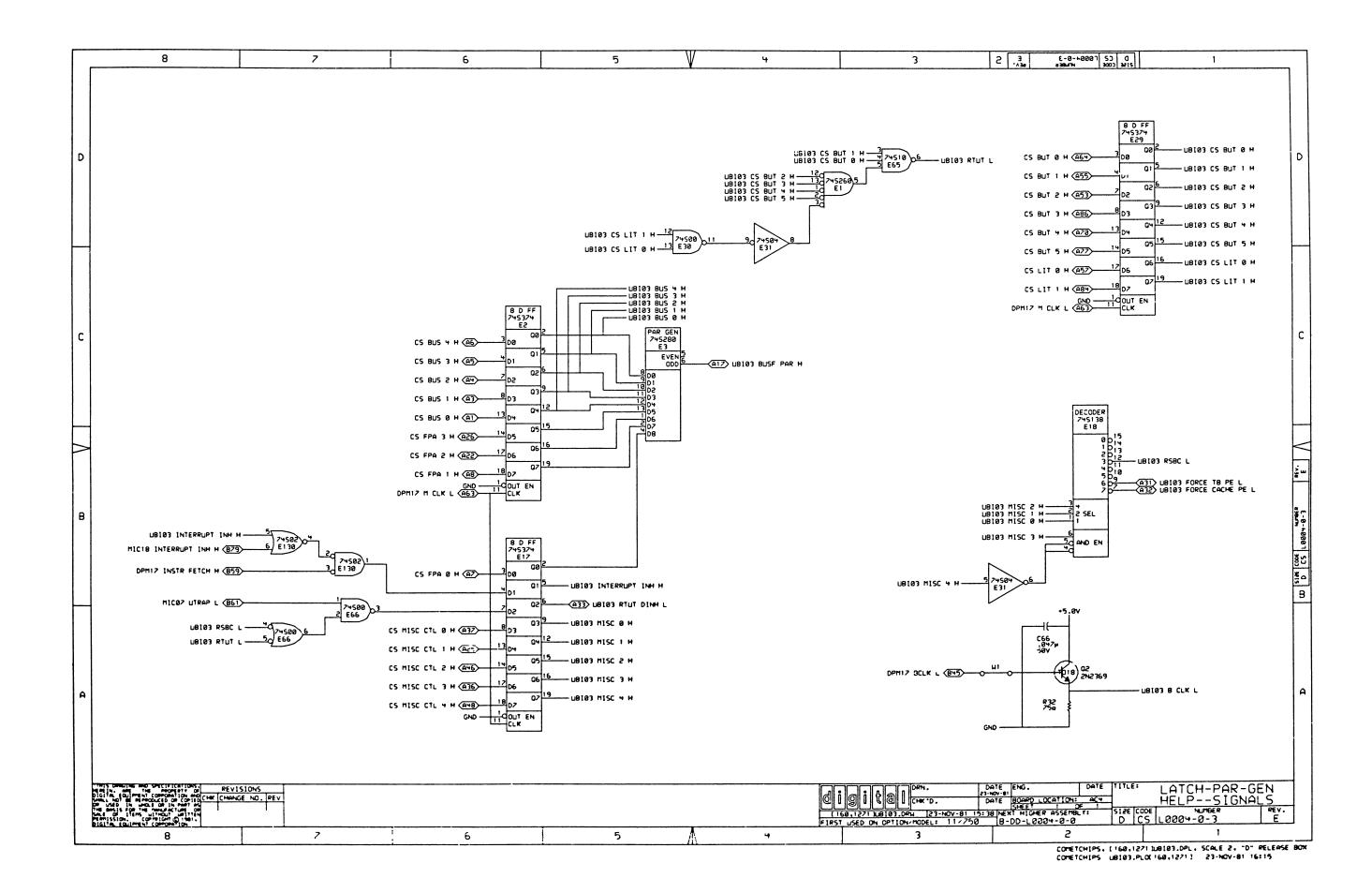
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012374567890123756789012375 8888888889999999999999999999999999999	1915697-00 2112623-00 2112623-00 2113653-00 2113653-00 2113652-00 21134622-00 21134622-00 21135256922-00 235289922-00 235289922-00 235289922-00 1305372-00 1305372-00 13091859-00 1313670-00 1313670-00 1318580-00	RAM 256X4 TRI-STATE DUAL BAUD RATE GEN/PROG DIVIDER 4001UBNOR GATE-QUAD 2IN CM 4513B COUNTER, DUAL UP BCD 74C89 RAM 64BIT CMOS TRIST 4040B COUNTER/DIVIDER, BINA A2-05 A	CONT	E59, E69, E79, E80, E86, E97, E99, E101, E110 E60-E62, E70-E72, E81, E82, E92, E102 E74 E25 E26 E50 E114, E27, E52 E78 E9 E10 E112  C7 R27 R6 R7 Q2 W1 R39, R34 E39 E91 R35 D7 XQ2

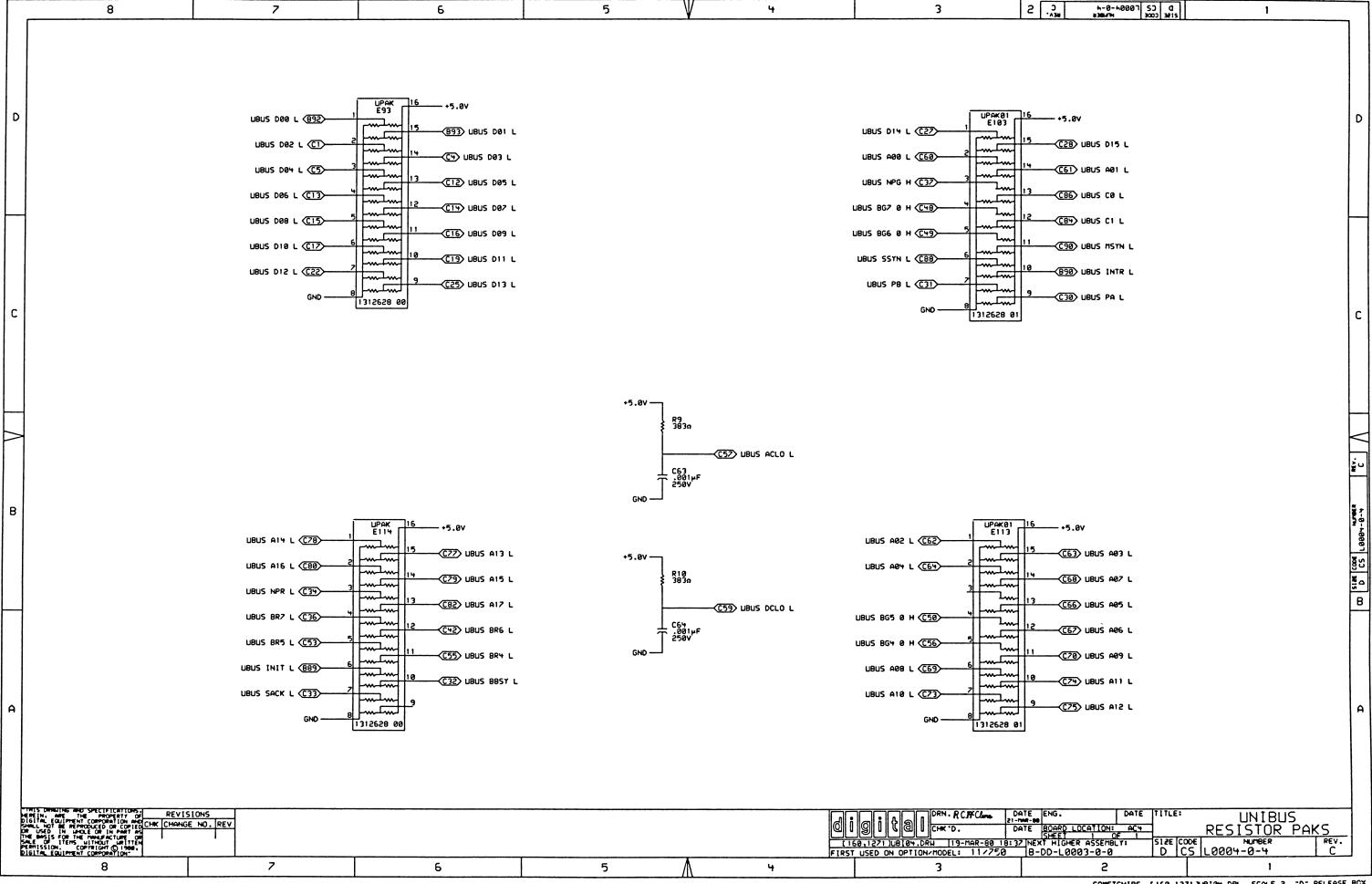
106 NOTE: SPARE I.C. LOCATIONS ARE: E130, E135 107 NOTE: SOME MODULES WILL HAVE 10-05306 INSTEAD OF 10-12084-01

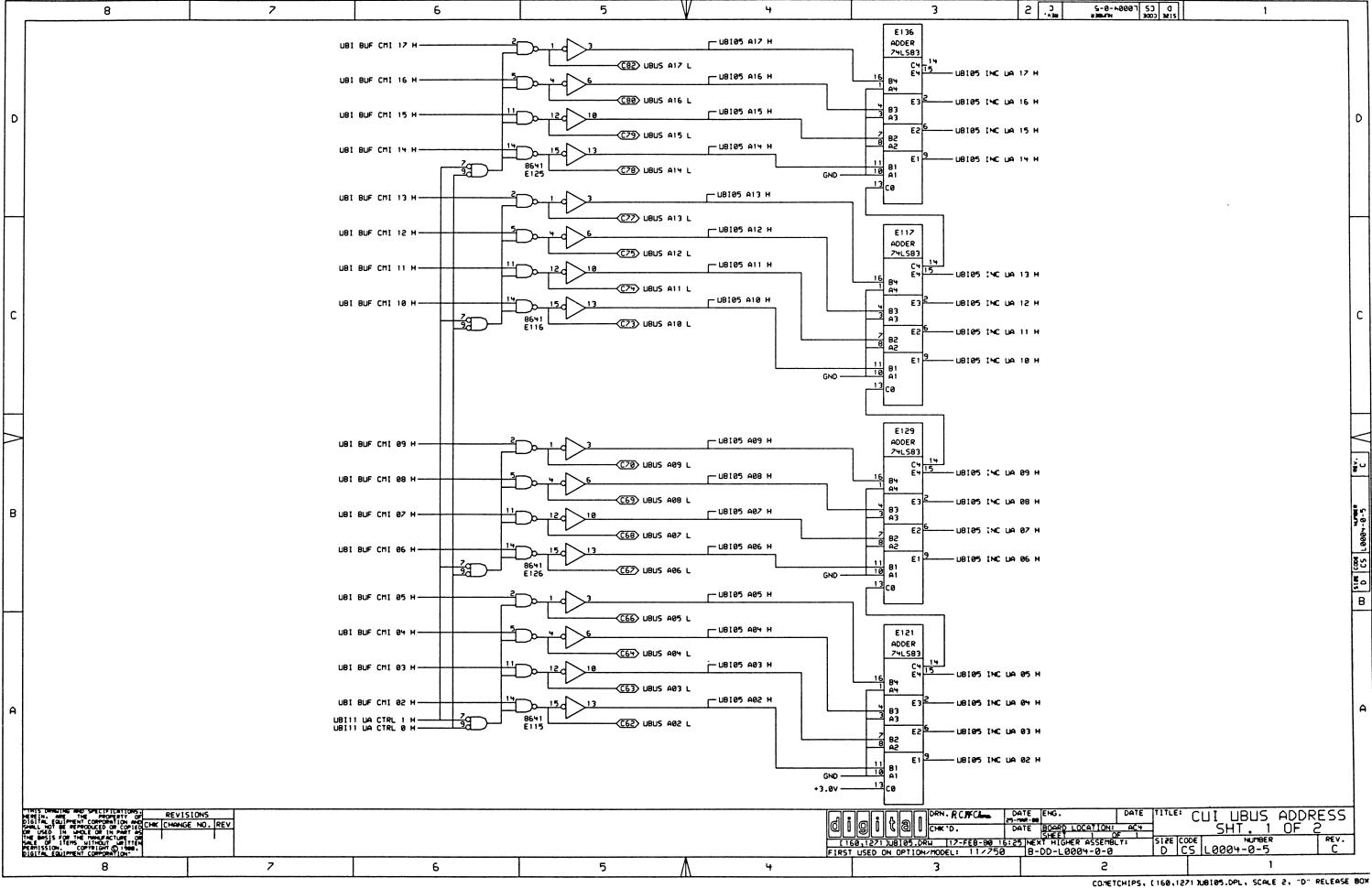
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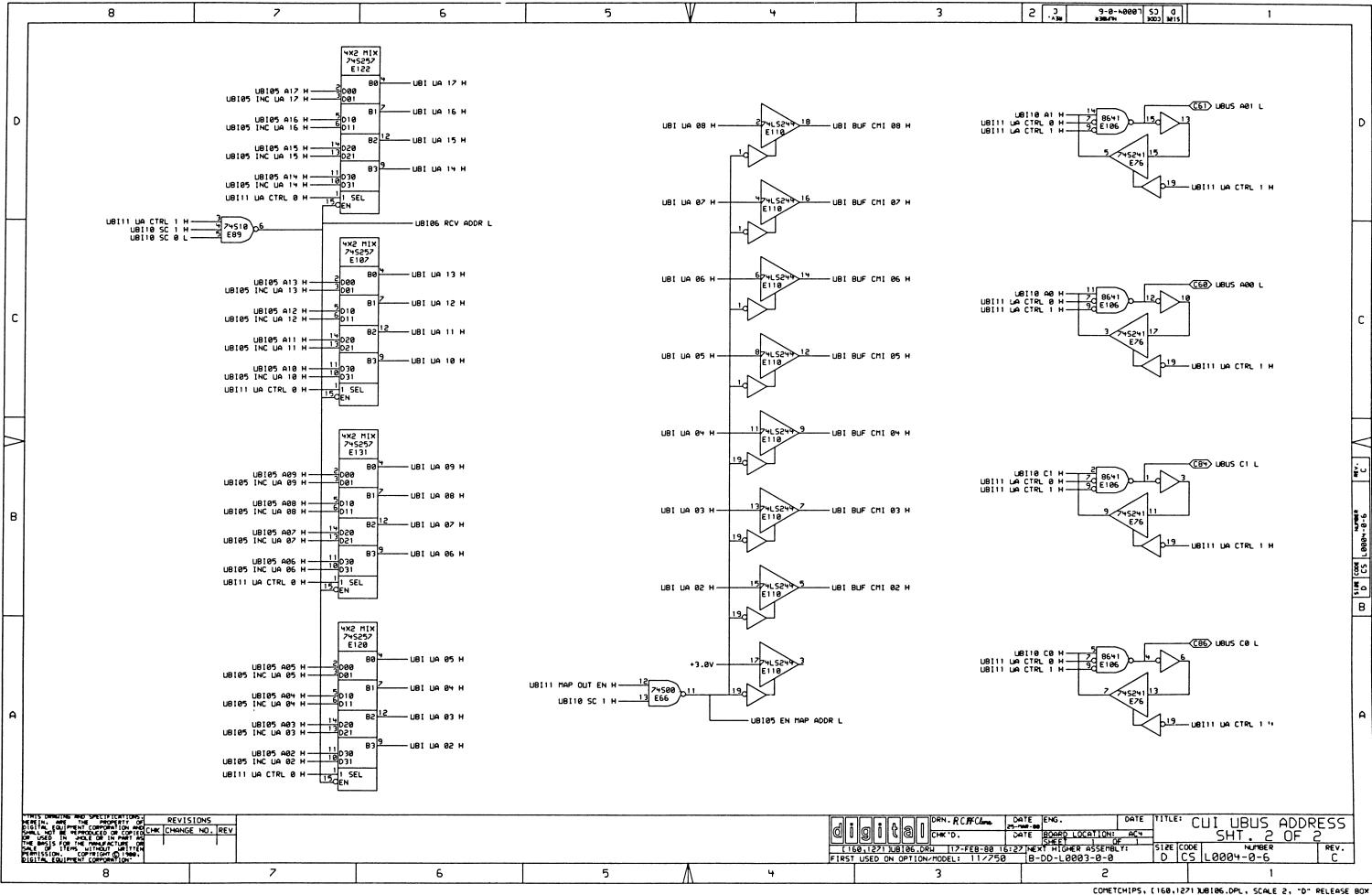


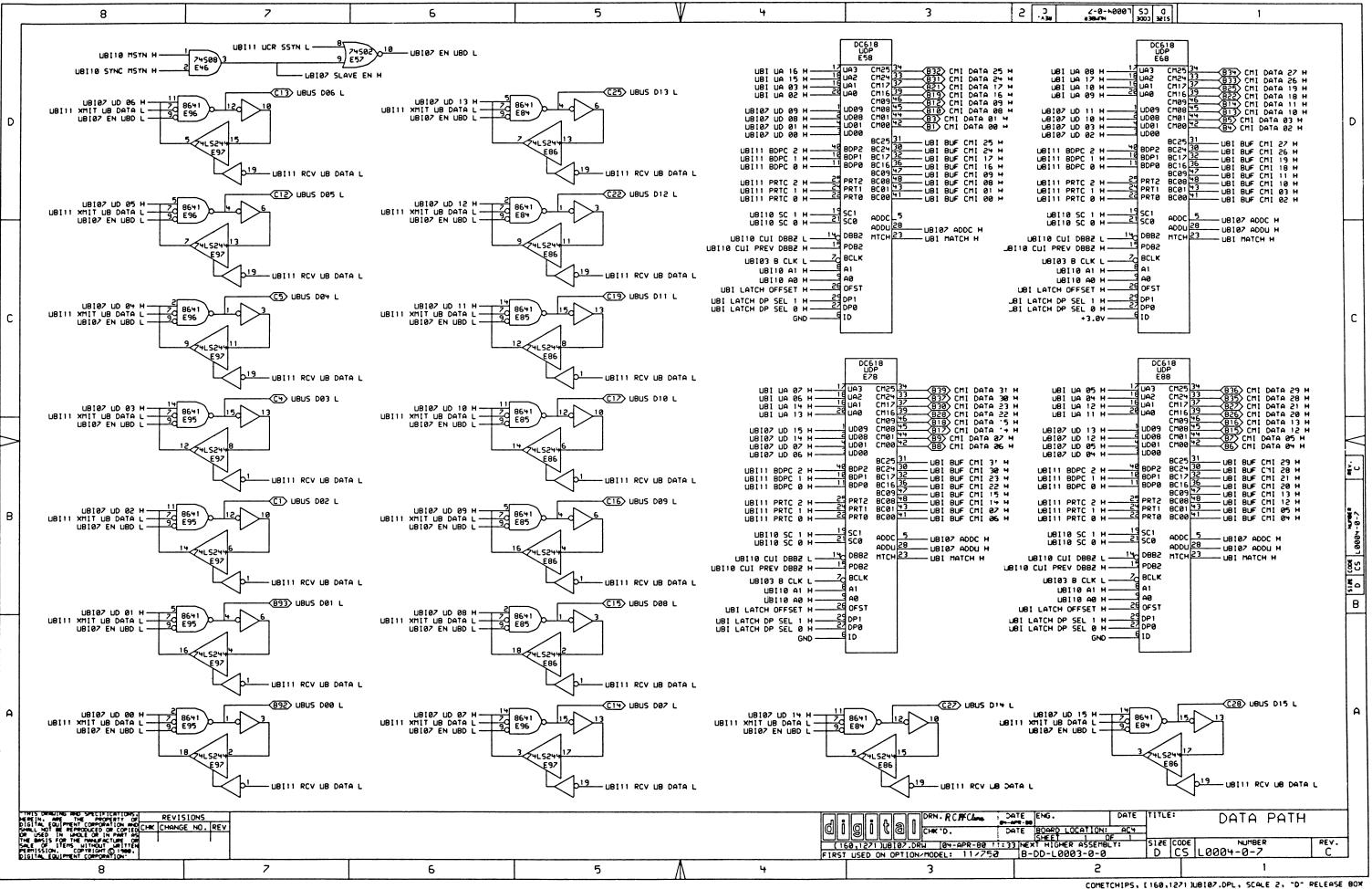
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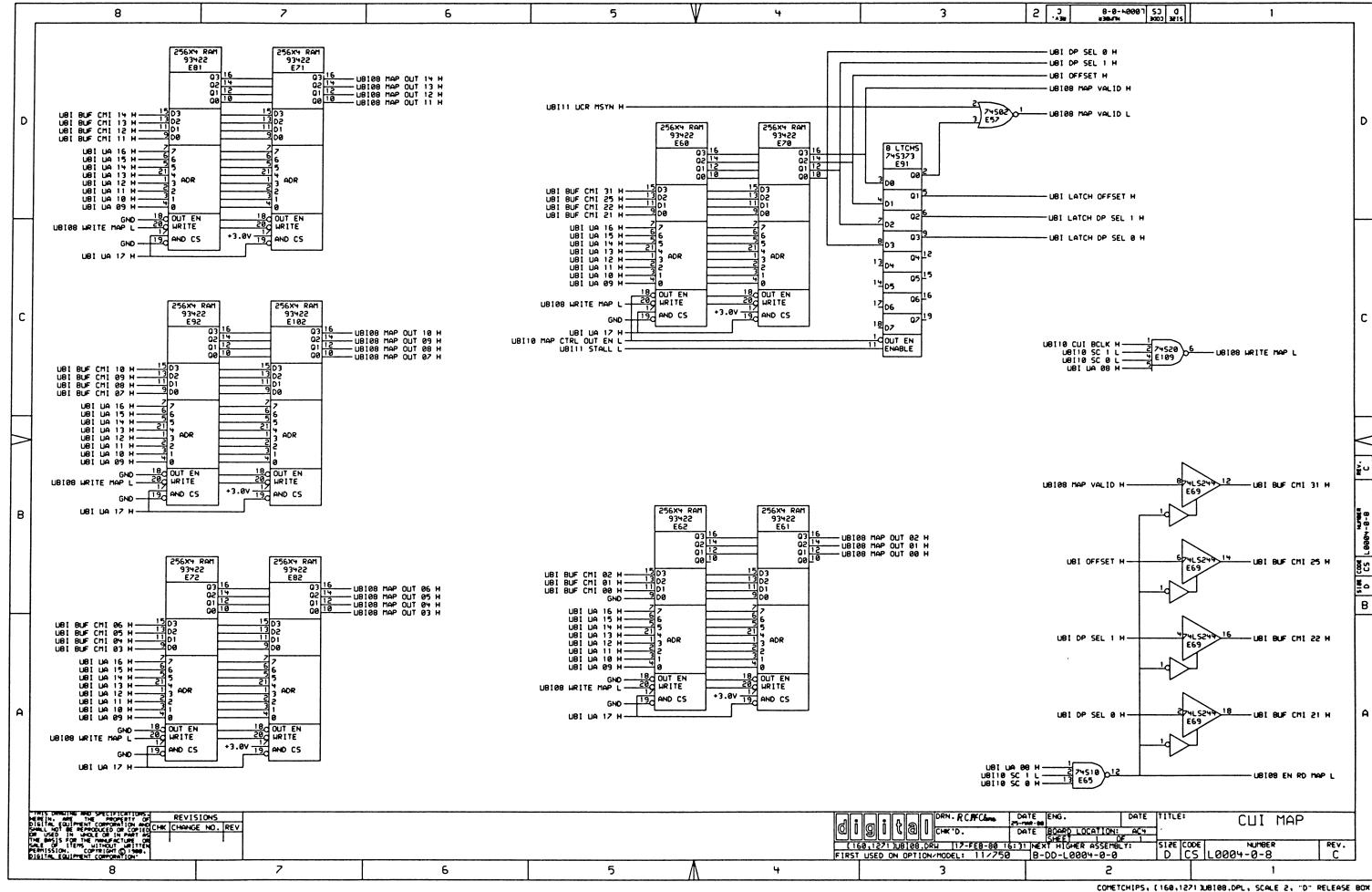


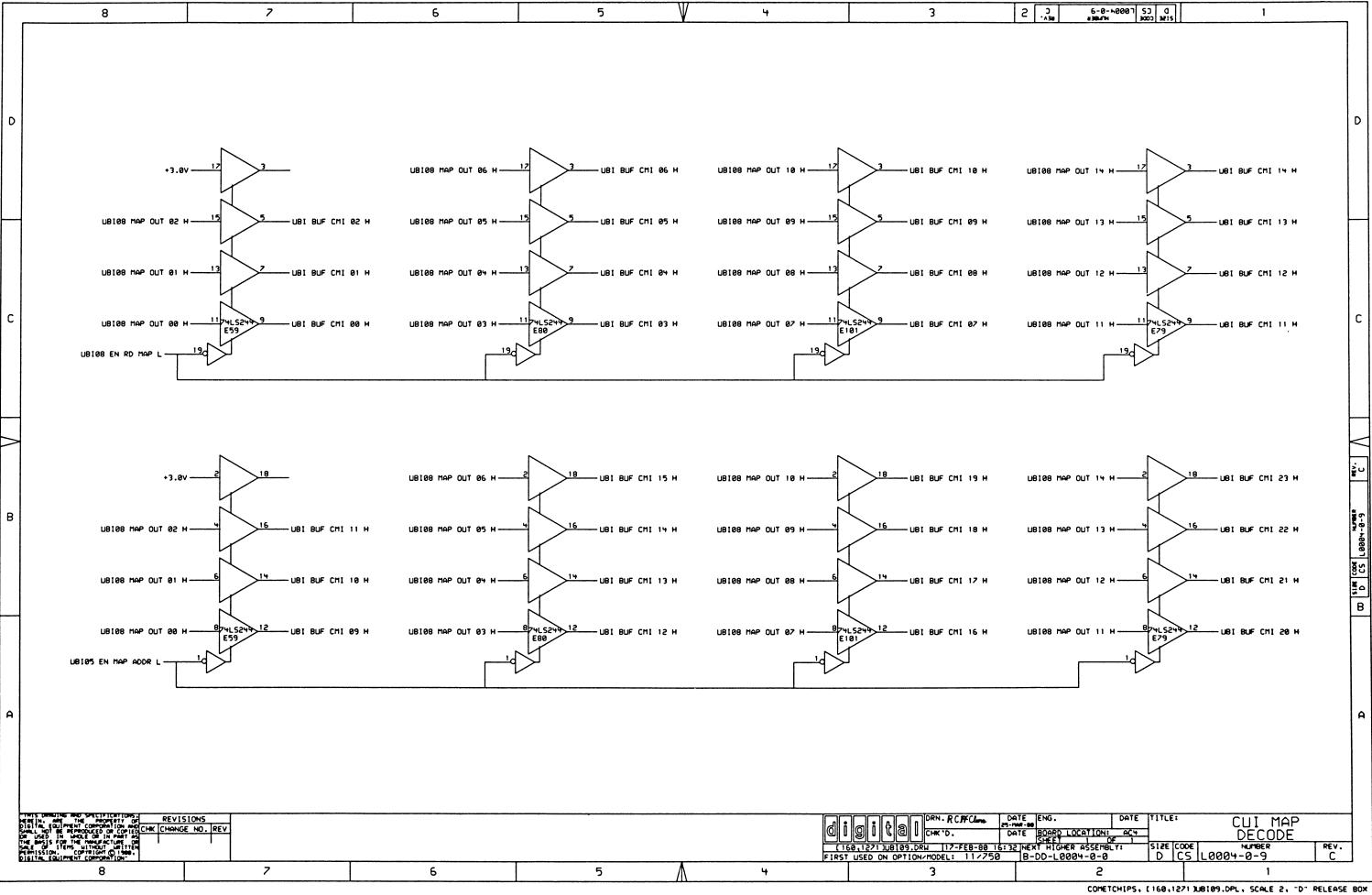


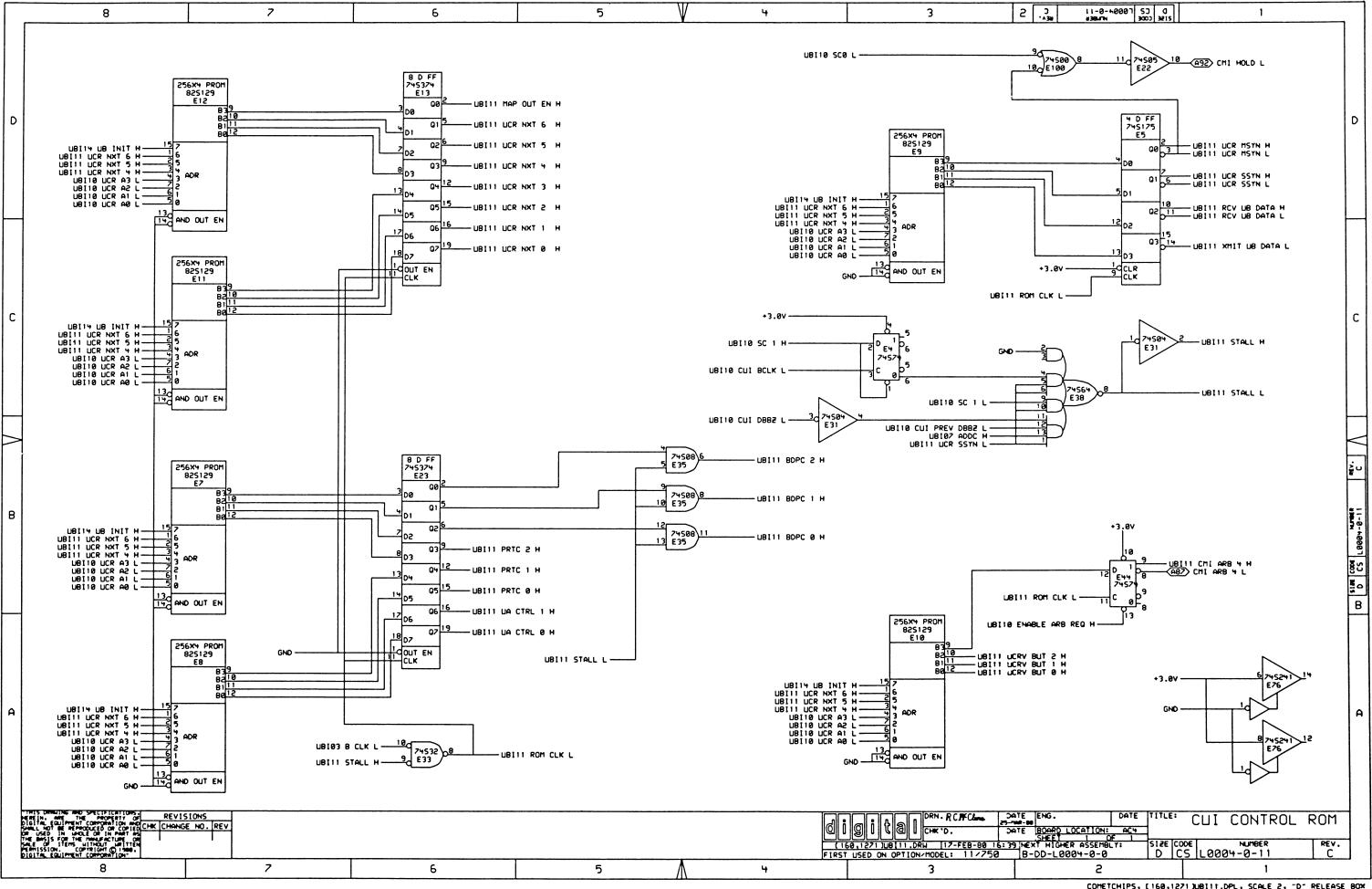


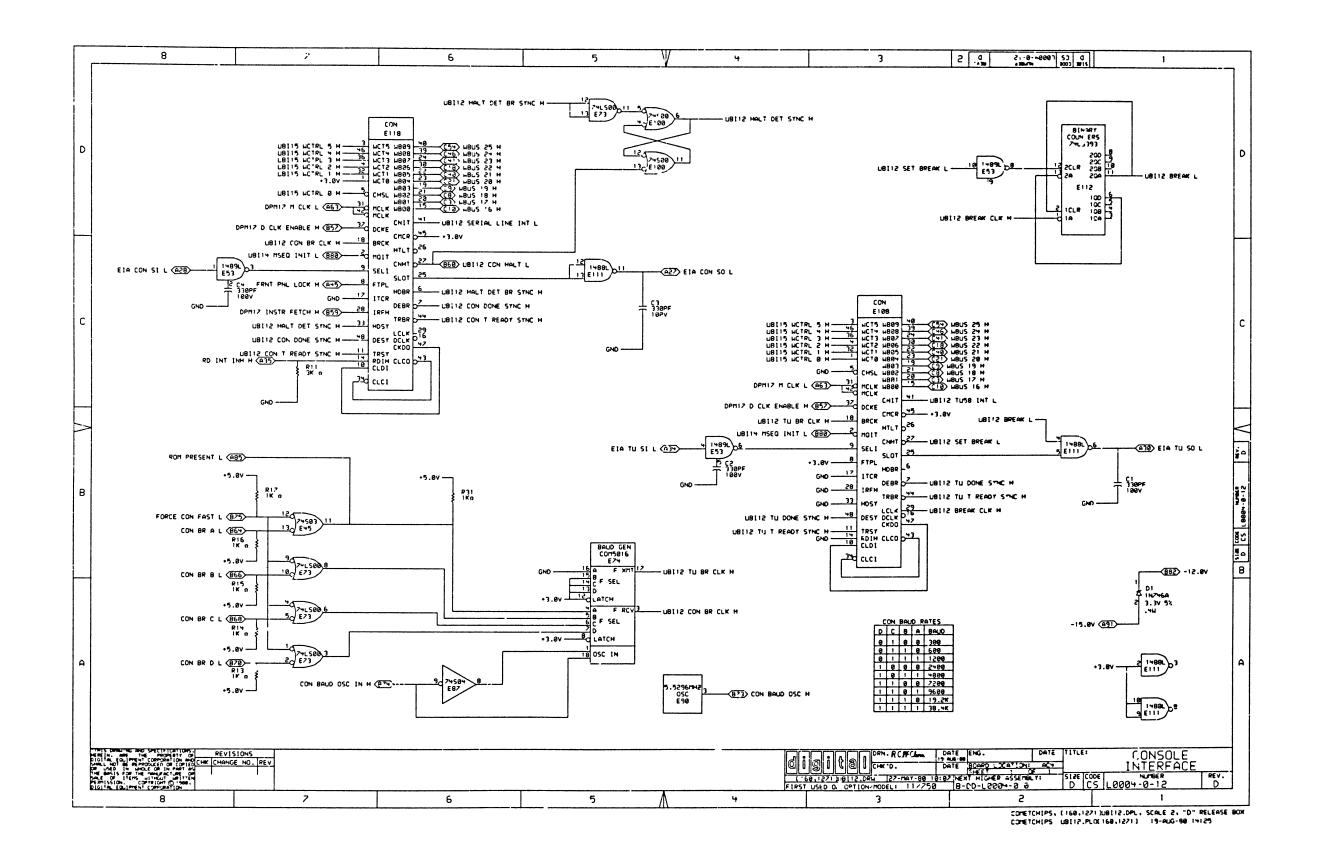


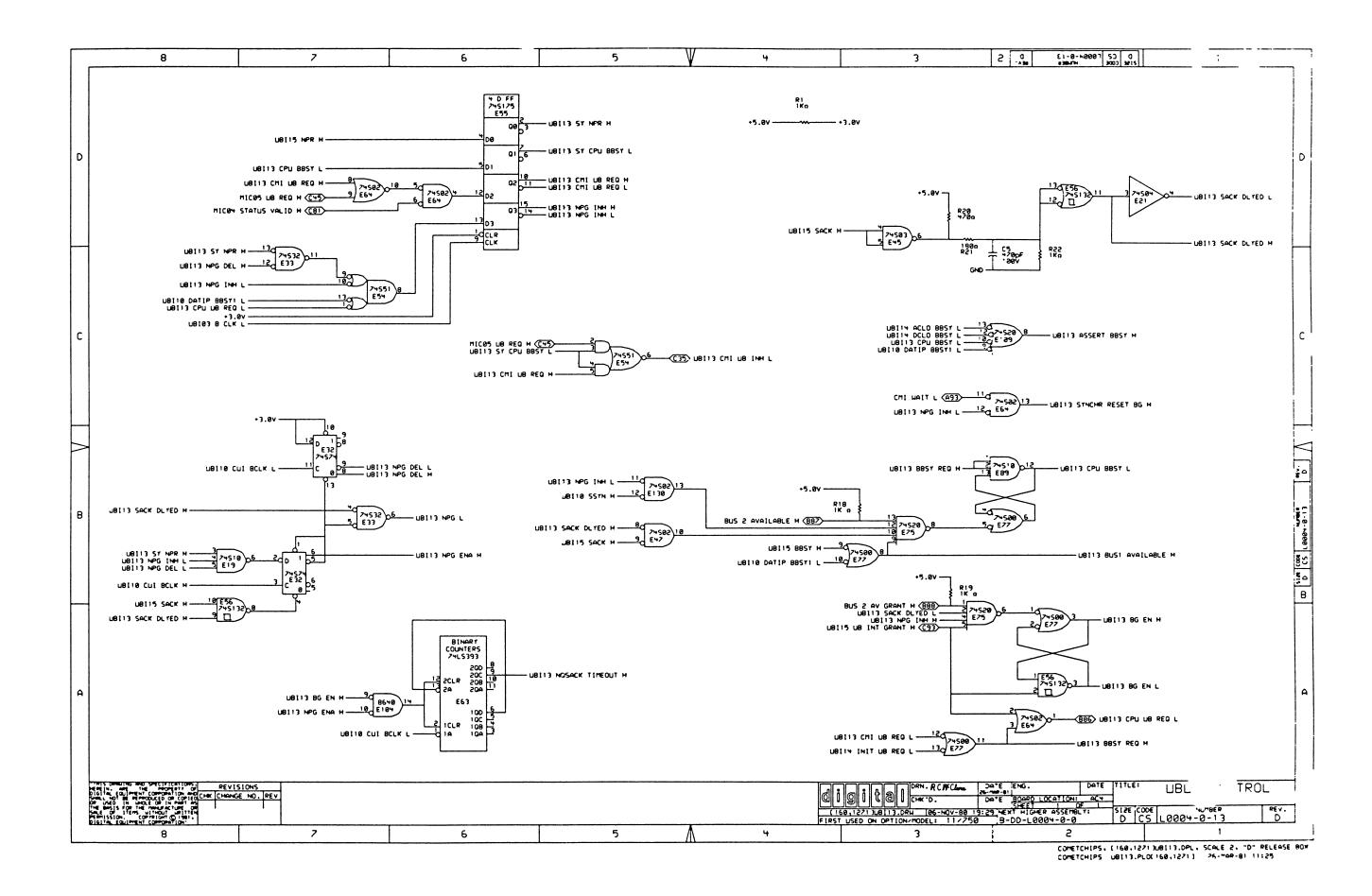


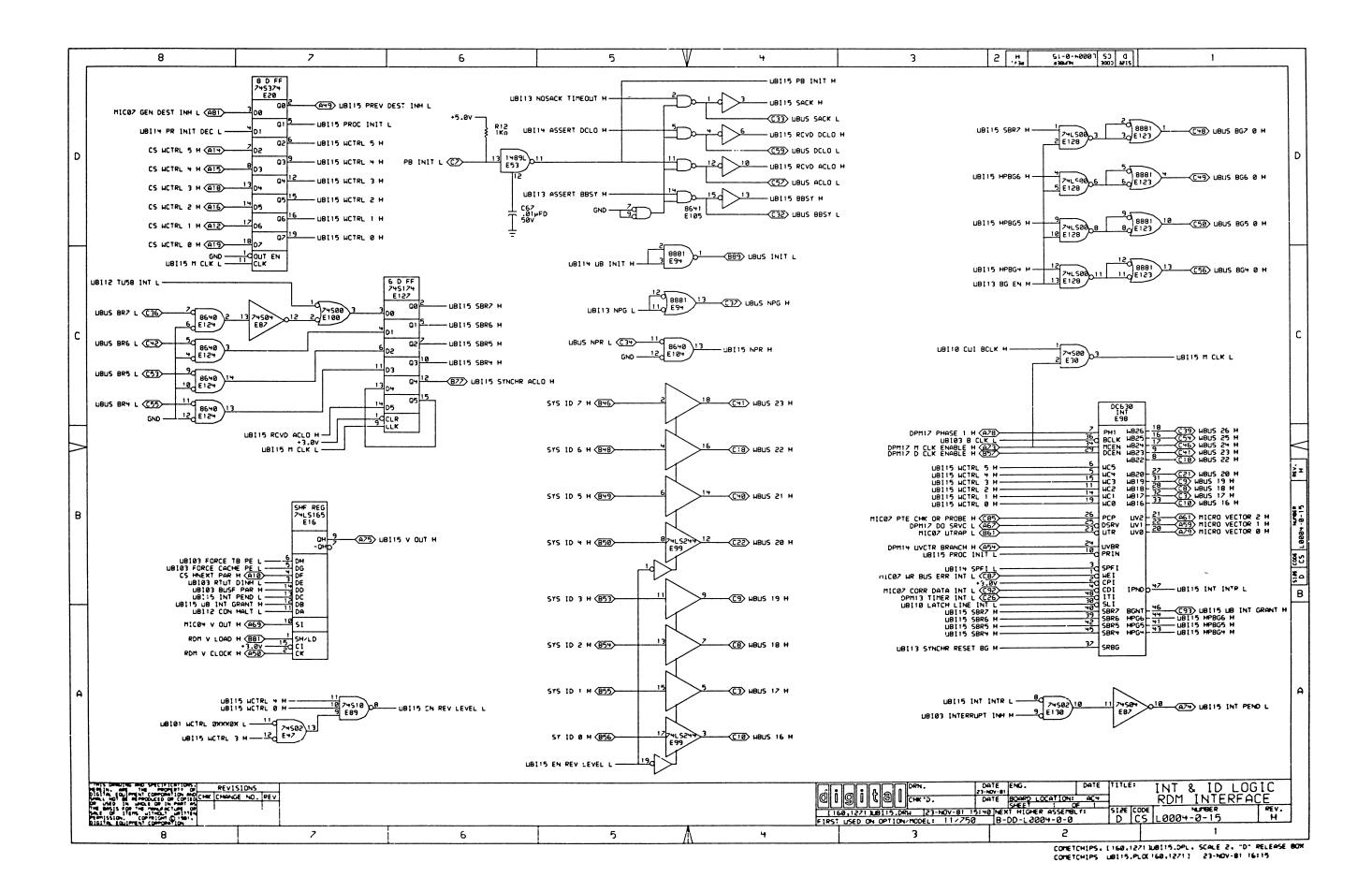




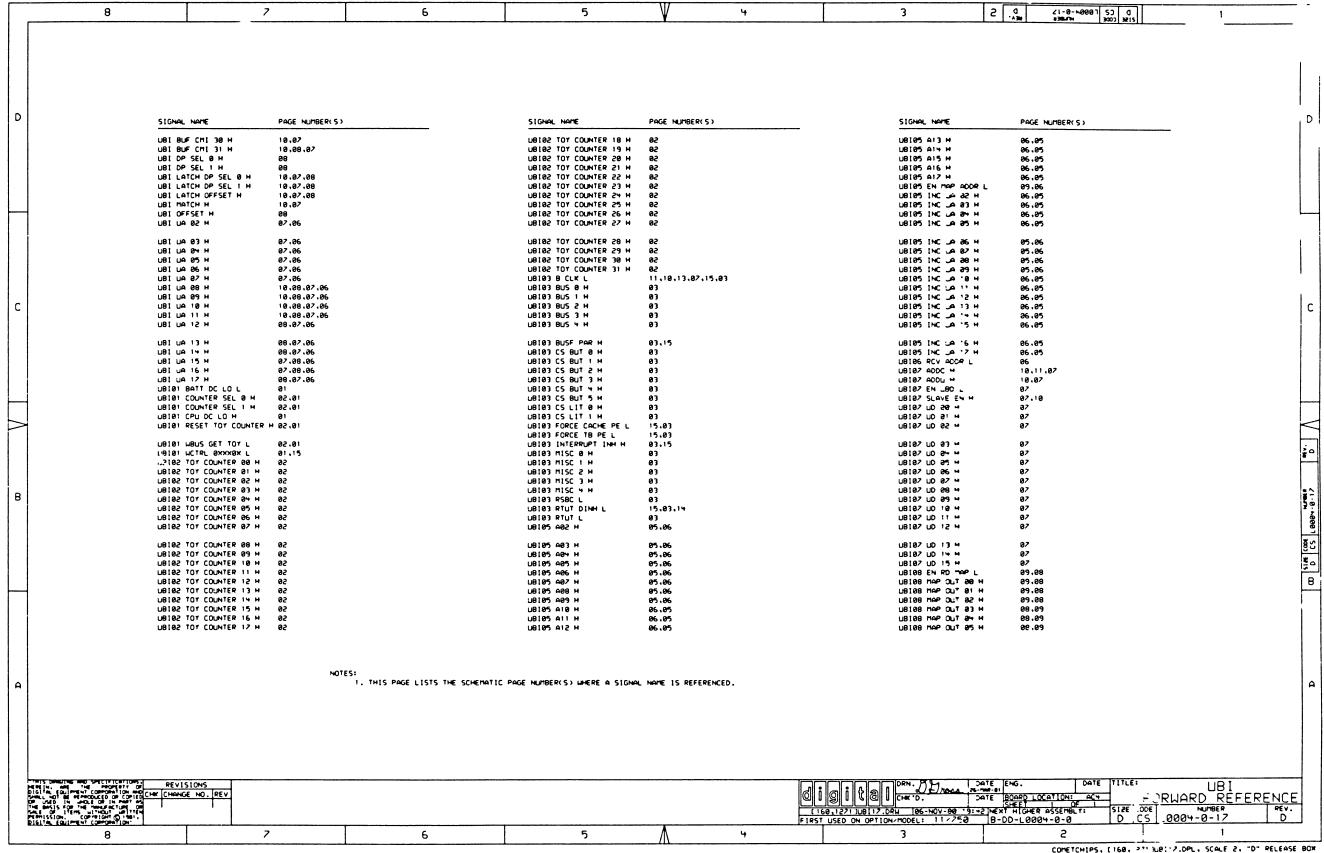






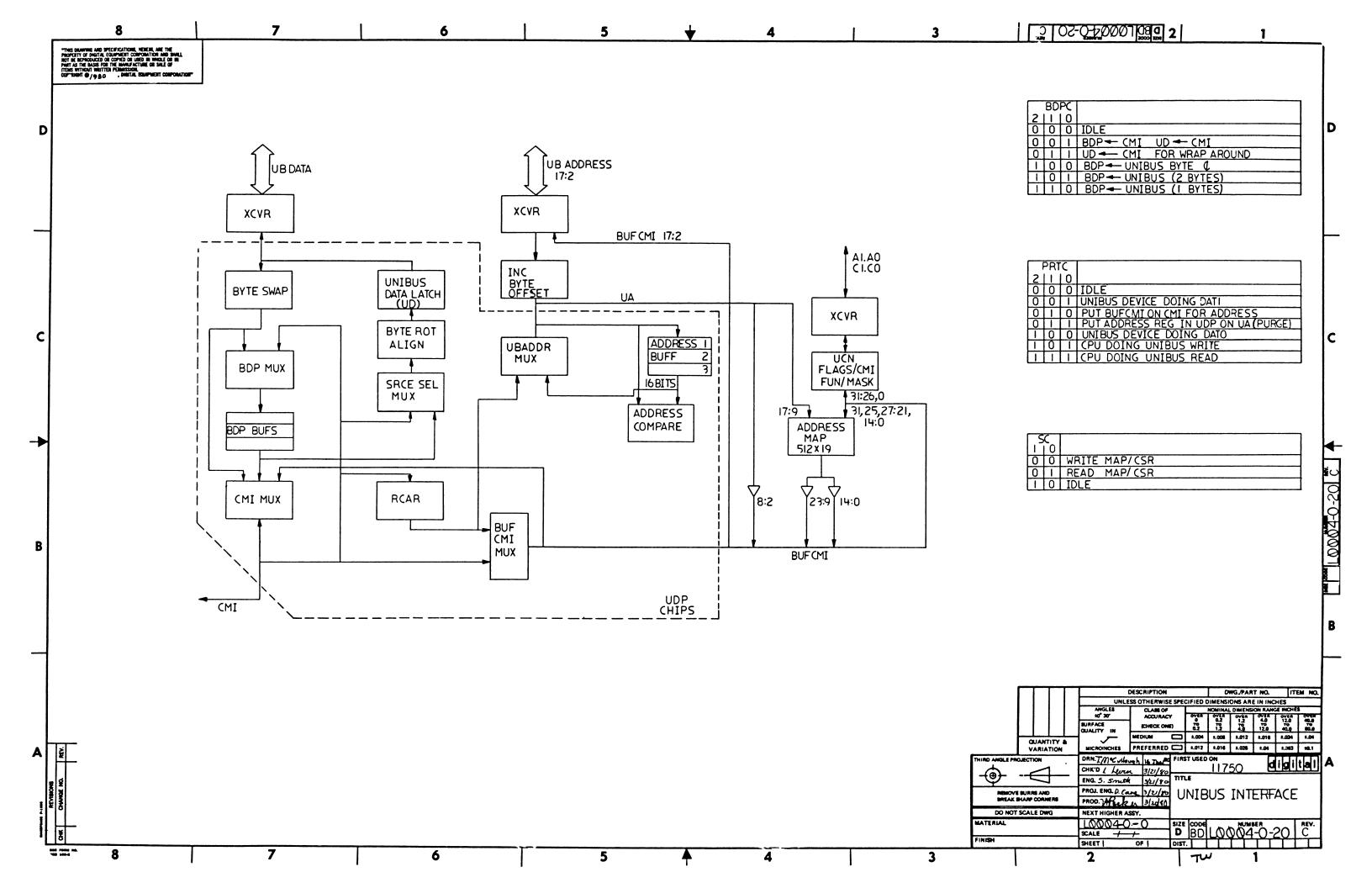


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BESS AFIG.   SH-65   BESS   BESS ZEP   B1	D	UBUS A	A07 L 04.05 A08 L 94.05 A09 L 94.05 A10 L 94.05 A11 L 94.05 A12 L 94.05 A13 L 94.05 A14 L 94.05		HBUS 17 H HBUS 18 H HBUS 19 H HBUS 20 H HBUS 21 H HBUS 22 H HBUS 23 H HBUS 23 H HBUS 24 H	02,01,15,12 01,02,15,12 01,02,15,12 01,02,15,12 01,02,15,12 01,02,15,12 02,15,12 01,15,12	SIGNAL NAME			D
UILS CR L	С	UBUS A  UBUS A  UBUS A  UBUS BI	A16 L 04.05  A17 L 04.05  ACLO L 04.15  BBSY L 15.04  BG4 0 H 04.15  BG5 0 H 04.15  BG6 0 H 04.15  BG7 0 H 04.15  BR4 L 04.15  BR5 L 04.15		HBUS 26 H	01,15				С
BUSIN DRS 1		UBUS COUBUS COUBUS COUBUS DO UBUS DO U	C0 L 04.06 C1 L 04.06 D00 L 04.07 D01 L 04.07 D02 L 04.07 D03 L 04.07 D04 L 04.07 D05 L 04.07 D06 L 04.07							٠٠٠٠
UBUS MPG H 15,84 UBUS MPR L 15,84 UBUS MPR L 15,84 UBUS PB L 18,84 UBUS SSKY L 15,84 UBUS SSKY L 18,84 UBUS MPR L 15,84 UBUS MPR L 18,84 UBUS MPR L 18,8	В	UBUS DO	D09 L 10.07.04 D10 L 07.04 D11 L 07.04 D12 L 07.04 D13 L 07.04 D14 L 07.04 D15 L 07.04 DCLO L 04.01,15  INIT L 15.04							1000 NUMBER
1. THIS PAGE LISTS THE SCHEMATIC PAGE NUMBER(S) WHERE A SIGNAL NAME IS REFERENCED.		UBUS M UBUS NA UBUS NA UBUS PA UBUS PA UBUS SA UBUS SA	MSYN L 10.04 NPG H 15.04 NPR L 15.04 PA L 10.04 PB L 10.04 SACK L 15.04 SSYN L 10.04							# is B
THIS DIRBUTING AND SPECIFICATIONS:  REVISIONS  DOTE ENG.  DATE ENG.  DATE ENG.  DATE TITLE:  UBI  SMALL NOT BE REPRODUCED IN COPYRIST TO C	A				PAGE NUMBER(S) WHERE A SIGN	AL NAME IS REFERENCED.				f
FIRST USED ON OPTION/MODEL: 11/750   B-DD-L0004-0-0   D   CS   L0004-0-19				6	5		(160,1271)UB[19.DRH [21-MAR-80 14: FIRST USED ON OPTION/MODEL: 11/750	DATE   BOARD LOCATION: ACT	UBI FORWARD REFERE OE NUMBER S L0004-0-19	NCE REV.



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; UðI
            .MCP [160,5507] Micro-2.1 18(40)
                                                                                  8:52:33 18-Feb=1980
                                                                                                                                K-MP-L0004-0-21-C
                                                                                                                                                                                                Page 1
                                                      Table of Contents
             COMET UNIBUS INTERFACE MICPOCODE REV Ø15 12/19/79
FIELD DEFINITIONS
FIRST FORK BREAKOUT
CPU READS AND WRITES TO THE UNIBUS ARE HANDLED IN THIS SECTION
; 33; 137
; 231
             DATO THROUGH BUFFERED DATA PATH
BDP DATI'S
THIS SECTION HANDLES DATO'S TO THE DDP
THIS PAGF IS WHERE WE COME FOR DATI'S THROUGH THE DIRECT DATA PATH
PURGE CODE
FOWER UP CODE
1 293
; 348
; 454
; 563
; 618
; 650
```

```
.MCR [160,5507] M1CTO-2.1 18(40) 8:52:33 18-Feb-1980 .MIC [160,5507] COMET UNIBUS INTERFACE MICPOCODE REV 015 12/19/79
                                              .TOC "COMET UNIBUS INTERFACE MICROCODE REV 315 12/19/79"
                      12
                                                                                          DC FIXED DEFINITION OF UA,CTRL:RCV AND RVC.INCR WERE SWAPPED FIXED DDP AND BDP DATI CODE TO HOLD BYTE 0 OF DATA IN UD LATCH FOR OFFSET CASE.
                                              1001 7/23/79
                       14
                                                                                         LATCH FOR OFFSET CASE.

ONLY 68,67 CHANGE
DC FIXED SEQUENCE AT BEGINNING OF READ SO AS TO NOT
CAUSE UDP'S TO DRIVE UA BUS. E8,67 CHANGE
PB CHANGED DEFAULT OF UA.CTRL TO "2" TO GO ALONG WITH CHANGE
FOR REV 001.

TO ADDED CONSTRAINED WORD IN DDP.DATO WRAP CODE
TO ALLOW UB1 TO HOLD DATO DATA ON BUS PROPERLY
ALL. BOMS
                       16
17
                                              1002 7/23/79
                                              1003 7/23/79
                       19
                       110
                                              1004 7/24/79
                       111
                                                                                         ALL POMS
DC FIXED BDP DATI CODE TO HOLD BYTE 0 ON WRAP-CHANGE
TO UBDATA FIELD TO KEEP HI-Z.
PC FIXED DATOB BDP NO WRITE TO ASSERT SSYN BEFORE
CHECKING TO SEE IF ITS THERE.
CHECKING TO SEE IF ITS THERE.
DC CHANGED PFORMT CONTROL FILE TO BLAST BDPC FIELD LOW TRUE
                       113
114
115
116
                                              1005 7/24/79
                                              1006 7/24/79
                       118
                                              1 6A 8/13
                                                                                         DC CHANGED PFORMT CONTROL FILE TO BLAST BDPC FIELD LOW TRONLY E7 CHANGES
DC ADDED ARB FOR CMI DURING WRAP AROUND READS AND WRITES
TO KEEP CMI DURING BOTH SETS
DC CHANGED PFORMT CONTROL TTO BLAST BUT<1> LOW TRUE
ONLY E10 CHANGES
CHANGED MAIN.20, ALL ROMS
DC CHANGED PFORMT TO BLAST BUT<0> LOW TRUE
                                              1007 9/14/79
                        120
                       122
123
124
125
                                              1 7A 9/18/79
                                             1909 9/21/79
1 9A 9/24/79
                                                                                         E10 CHANGED PROMIT TO BURST BURST BOW TRUE
E10 CHANGES
CHANGED BDP.DATI.50, DDP.40 AND DDP.47 TO BUT ON
SSYN INSTEAD OF MSYN
DC NUMEROUS CHANGES TO FIX UNALIGNED AND PB PROBLEMS
DC FIX TO CPU.RD TO PREVENT IT FROM LEAVING
GARBAGE ON THE CMI. E0,E9 C"ANGE
                        126
127
                                              1010 9/26/79
```

1013 10/9 1015 12/19/79

```
.MCR [169,5507] Micro-2.1 18(40)
                                                                      8:52:33 18-Feb-1980
                                                                                                            K-MP-L0004-0-21-C
                                                                                                                                                                   Page 3
           .MIC (160,5507) FIELD DEFINITIONS
; UBI
                                  .TOC "FIELD DEFINITIONS"
.RTOL
                       ;33
                       134
135
136
                                   .HEXADECTHAL
                                  1 (23:74) E12

1 (23:74) E12

2 (19:16) F11

1 (15:12) E7
                       :38
                       140
                       142
143
144
145
                                              <1118> E8
<7:4> E9
<3:0> E10
                       146
147
148
                                  BUFCMI/=<23:23>, .DEFAULT=0
                                                                      PUT MAP PEN AND LOW BITS OF UBUS ADDR ON BUFCMI
                       149
150
151
                                              HI-2=0
                                   NEXT/=<22:16>, .NEXTADDRESS
                       ;52
;53
;54
;55
                                   BDPC/=<15:13>,.DEFAUI.T=0
                                                                     CONTROLS BDP DATA/ADDR LATCHES
;PDP<-CMI, UD<-CMI/ROP (NOT BYTE 0 IF BYTE OFFSET),ADDR
;UD<-BDP/CMI
;BDP RYTE 0<-UNIBUS DATA,ADDR
                                              DATIES
                                              DATIW=3
DATOW=4
                       157
                                                                      ROP - UNIBUS DATA (2 BYTES) FUNCTION OF ALOFFSET, ADDR BDP - UNIBUS DATA (1 BYTE) FUNCTION OF ALOFFSET, ADDR
                                              DATO=5
                                              PATCB=6
                       159
                                                                    TEA

; CONTROLS DATA PORTS ON UDP CHIPS
; URUS DEVICE DOING DATI(P)
; ADDRESS FROM UBUS TO CMI
; ADDRESS FROM BAR TO CMI
                                  PRTC/=<12:10>, .DEFAULT=7
DATI=1 ;t
                       161
162
163
                                              UR.ADDRE2
                                              PURGE.ADDR=3
DATO=4
CPU.WRT=5
                       164
                       166
                                              CPU.PD=7
                       168
                                  UA.CTRL/=<9:9>, .DFFAULT=2
                                                                      T=2 ;CONTROLS UNIBUS ADDRESS XCVRS
;DRIVE UNIBUS ADDRESS LINES
                                              XMITEN
                       170
                                              HI-Z=1
                                                                      PRECIEIVE AND INCREMENT UNIBUS ADDRESS PRECEIVE UNIBUS ADDRESS
                                              RCV.TNCR=3
PCV=2
                       :71
                       ;72
173
                                  MSYN/=<7:7>, .DEFAULT=0
ASSERT=1
                       174
                       176
177
```

```
8:52:33 18-Feb-1980
.MIC [160,5507] FIELD DEFINITIONS
                                      SSYN/=<6:6>, .DEFAULTER
                   179
                                                         ASSEPT=1
                   ; 81
; 82
                                      UBDATA/=<5:4>, .DEFAULT=2
                                                                                                                                    CONTROLS UNUS DATA XCVRS
                                                        FCV=2
                   183
                                                        DRIVE.UD=1 ;DRIVE UBUS DATA LINES
DRIVF.UD.NOPB=3 ;DRIVE UBUS DATA BUT NOT FB LINES
HI-Z=0
                    185
                   167
                                     CMI.ARB/=<3:3>, .DEFAULT=0
REQUEST=1
                    ;89
;90
;91
;92
;93
                                      BUT/=<2:0>, .DEFAULT=0
                                                                                             ; < MSYN, EMPTY PURGE>
; < MSYN, WON THE BUS L>
; < MSYN, WON THE BUS L>
; < MSYN, WON THE BUS L>
; < MSYN, SSYN OR TIMOUT>
; < MSYN, SSYN OR TIMOUT>, CLGCK FLAGS
; < WRAP L, DBBZ L, NYM L>
; 0000 BDP DATOB CMI WRITE NEEDED
; 0010 RDP DATO CMI WRITE NEEDED
; 0010 RDP DATO NO WRITE
; 0010 RDP DATO NO WRITE
; 0010 RDP DATO NO WRITE
; 0101 RDP DATO NO WRITE, OR WRAP WITH NG MATCH
; 0100 BDP DATI WPAP 1ST WORD AVAILABLE
; 0111 RDP DATI DATA AVAILABLE
; 0111 RDP DATOR OFFSET PUTS IN NEXT LONGWORD
; 0111 BDP DATI NO DATA AVAILABLE
; 1001 CPU WRITE
; 1001 CPU READ
; 1011 DDP DATO(B)
; 1011 DDP DATO(B)
; 1011 DDP DATI(P)
                                                         EMPTY=1
                                                         ARB=2
                    194
                                                        SET.FLAG=3
UB.STATUS=4
                                                        CLK.FLAGS=5
CMJ.STATUS=6
                    196
                    198
                                                         FIRST.FORK#7
                    1100
                    1101
                    1102
                    1103
                    1105
                    1106
                    1107
                                                                                               11011 DDP DATI(P)
11100 PURGE
                    1109
                                                                                               11101 PURGE 11110 DDP DATOB OFFSET PUTS IN NEXT LONGWORD, OR INT
                    :111
                                                                                               11111 NOTHING GOING ON
                    1113
```

Page 4

; UBI

.FCR [160,5507] Micro-2.1 18(40)

K-MP-L0004-0-21-C

; UBI

```
Page 5
```

```
"CMI,ARP/REQUEST,PRIC/UB.ADDR,BUT/ARB,BUFCMI/ADDR"
"CMI.ARB/REQUEST,PRIC/UB.ADDR,RUT/ARE,UBDATA/HI=Z,BUFCMI/ADDR"
"CMI,ARB/REQUEST,PPIC/PURGE.ADDR,UA.CTRL/HI=Z,BUT/ARB,BUFCMI/ADDR"
;116
;117
              REG.RD?
PEG.PUR?
              EMPTY?
FIRST.FORK?
                                             "BUT/EMPTY"
"BUT/FIPST.FORK, NEXT/MAIN.LOOP"
"BUT/CMI.STATUS"
1118
1119
;120
;121
              CMI.STAT?
              UB.STAT?
                                              "BUT/UB.STATUS"
1122
              SSYN
                                              "SSYN/ASSERT"
1123
1124
              MSYN
INCR
                                             "MSYN/ASSEPT"
"UA.CTRL/RCV.INCR"
"CMI.ARB/REQUEST"
1127
1128
              DP_CMI
DP_CMI.W
UB_CMI.WRT
                                             "BDPC/DATI, PRTC/DATI, UBDATA/HI-Z"
                                            "BDPC/DATIM,PRTC/DATI,UBDATA/HI=Z,BUFCMI/ADDR"
"PRTC/CPU.WRT,UBDATA/DRIVE.UD,UA_CTRL/XMIT"
"PRTC/CPU.WRT,UBDATA/DRIVE.UD,NOPB,UA.CTRL/XMIT"
"PRTC/CPU.WRT,UBDATA/DRIVE.UD.NOPB,UA.CTRL/XMIT"
1129
1131
              UB_CMI.WPT.NOPB
UB_CMI.ADDR
              UB.RD_DP
REQ.XTRA?
                                             "PRIC/DATI, UBDATA/DRIVE, UD"
"CMI.ARB/PFQUEST, PRIC/UB.ADDR, BUT/SET.FLAG, UA.CTRL/RCV.INCR, BUFCMI/ADDR"
1133
1134
1135
               HOLD.BA
                                              "BDPC/DATI, UBDATA/HI=Z"
1136
```

```
.MCR [160,5507] M1cro-2.1 18(40)
.MIC [160,5507] FIRST FORK BREAKOUT
; UBI
                                                 8:52:33 18-Feb-1980
                         .TOC "FIPST FORK BREAKOUT"
                1138
                         E0000
                         MAIN.LOOP:
                                                         ITHIS IS THE TOP OF FIRST FORK
                 1140
                                 10000-----
                                 RUT/CLK.FLAGS.
                                                         BDP DATOB: CMI WRITE
                1141
                                 HDPC/DATOB,
U 900, 4PC2,25
                                 HEXT/BDP.DATO
                1143
                1145
                                 10001 -----
                                                         18DP DATO; CMI WRITE
1PUT DATA IN BUFFER
                                 BUT/CLK.FLAGS,
                                 FDPC/DATO,
NEXT/8DP.DATO
U 001, 4BA2,25
                1148
                1149
                                 BDPC/DATOB,
BUT/CLK.FLAGS,
NEXT/BDP.DATO.20
                                                       BOP DATOB, BUFFER NOT FULL
                 :152
U 002, 1FC2,25
                                                         180P DATO, BUFFER NOT FULL
                                 BDPC/DATO,
BUT/CLK.FLAGS,
NEXT/MAIN.20
                 :156
                                                         FOR OFFSET CAUSING WRAPAROUND
U 003, 12A2,25
                1158
                 1159
                                                         BDP DATI, LONGWORD WRAP
                                 BDPC/DATIW.
                 1161
                                 REO. PD?, INCR.
                                                         TELEST WORD IS IN THE BUFFER
U 004, D46B,0A
                                 NEXT/BDP.DATI.30
                 1165
                                 U 005, 2F66,08 ;168
                                 MEXI/BDP.DATI.45
                1169
                                                          IBDP DATOB, OFFSET PUTS BYTE
                                 BDPC/DATOW,
INCR, BUT/SET. FLAG,
NEXT/BDP. DATO. 20
                 1171
                                                          IN NEXT LONGGWORD
U 006, 1F83,23
                 1175
                                 PEG.RD7,
NEXT/BDP.DATI.10
                                                          BDP DATI, BUFFER EMPTY
U 007, DANA, AA
```

```
.MCR [160,5507] Micro-2.1 18(4?)
.MIC [160,5507] FIRST FORK AREAKOUT
; U8I
                                                     8:52:33 18-Feb-1980
                                                                                   K-MP-L0004-0-21-C
                                                                                                                            Page 7
: UBI
                  1179
                          ITHIS PAGE HOLDS THE SECOND EIGHT PLACES WHERE THE FIRST FORK GOES TO
                  1180
                  ;181
;182
                                                              1CPU DOING WRITE TO UNIBUS
1GET READY TO ASSERT STUFF
                                   PRTC/CPU.WRT.
                  1183
                                   UA.CTRL/HI-Z,
UB.STAT?,
NEXT/CPU.WRT
                                                              ION UNIBUS ICHECK SSYN REMOVED FROM UBUS
                  1184
U 008, 1015,04
                 1186
                                                              GO TIME DESKEW INTERVAL
                                   :13:11 -----
                  1188
                                   PPTC/CPU.RD.
                                                             CPU DOING READ FROM UNIBUS
                                   UA.CTPL/HI-Z,
UB.STAT?,
                  1190
                                                              SEE COMMENTS ABOVE
U 009, 1410,24
                                   NEXT/CPU.RD
                  1192
                                   1194
                                                              DDP DATO(B)
U UOA, DCUA, 2A
                                   NEXT/DDP.DATO
                  :197
                  1198
                                                              DDP DATE
                                   REO.RD?,
MEXT/DDP.DATI
                  1199
U OOB, FPOA, OA
                  1201
                                   EMPTY?.
NEXT/PURGE
                                                             PURGE, CHECK FOR EMPTY
                  1203
U 09C, 7602,21
                  : 205
                  1206
                                   ;1121-----
                                   EMPTY?,
MEXT/PURGE
                                                              PURGE, CHECK FOR EMPTY
U 00D, 76r2,21
                  1209
                  :210
                                   :1110-----
                 1211
                                   PEQ.XTRA?,
NEXT/DDP.DATO.20
                                                              DDP DATOB WRAP TO NEXT LONGWORD LALSO HERE FOR INTERRUPTS
U ONE, EOUB, 2R
                          IDLE:
                  1214
U 00F. 0002.27
                                                              NOTHING GOING ON, KEEP TRYING
                 1216
                                   FIRST.FORK?
                  :218
                                                              THERE TO SEE IF 10011 WAS NO WRITE OR OFFSET
                  1220
                                                              NOW THAT UDP ADDR IS THERE, TRY AGAIN
U 012, 13£2,26
                                   BUT/CHI.STATUS
                  1222
                  1224
                                   ;011------
                                   REG. WRT?,
                                                             WRAP AROUND, WRITE NEEDED
                  1225
U 013, C80A,2A
                                   MEXT/BOP.DATO.05
                  1227
                                   :111-----SSYN,NEXT/DDP.45
                                                              INO WRITE NEEDED
U 017, 6802,60
                 1229
```

Page 8

```
.MCR (160,5507) M1cro-2.1 1H(40) 8:52:33 18-Feb-1980 .MIC (160,5507) CPU READS AND WRITES TO THE UNIBUS ARE HANDLED IN THIS SECTION
        .MCR [160,5507] Micro-2.1 1H(40)
; UBI
                          .TOC "CPU PEADS AND WRITES TO THE UNIBUS ARE HANDLED IN THIS SECTION"
                 1232
                          CPU.WRT:
                                   UB_CMI.WRT,
                 1234
                                                             PRANCH COMES HERE IF SSYN NOT ASSERTED
                 1235
U 010, 1614,10 1236
                                                             SASSERT ADDRESS AND DATA ON UNIBUS
                                   NEXT/CPU.WRT.10
                                   I'B_CMI.WRT,
                  1238
                                                             THERE IF SSYN LEFT ASSERTED FROM
                 1239
                                   UR.STAT?,
NEXT/CPU.WRT
                                                             LAST UBUS TRANSACTION
U 011, 1014,14
                 1241
                          CPU_WRT.10:
                 1243
                                                             SEATING UP TIME FOR ADDR/DATA
U 016, 2A14,30
                                   UB_CMI.WRT.NOPB
                 1245
                                                             ITO MSYN DESKEW
                 1247
                          =10
                          CPU.WRT.20:
                                   1249
                                                            SASSERT MSYN AND WAIT FOR SSYN
                                  UB_CMI.WRT.NOPR,
NEXT/CPU.WRT.20
                  :251
U 02A, 2A14,B4
                 ;252
                                   UB_CMI.WRT.NOPB
U 028. 2814.30
                                                             IMSYN REMOVED, BECAUSE SSYN ARRIVED
                 1255
                  1256
                 1257
1258
                          CPU.WRT.251
                                   UA.CTRL/HI-Z, pl
NEXT/IDLE
                                                             PREVENT TRISTATE OVERLAP
                  :259
U 029, 0F01,20
```

; UBI

```
; UBI
        .MCR [160,5507] Micro-2.1 1B(40) 9:52:33 18-Feb-1980
.MIC [160,5507] CPU READS AND WRITES TO THE UNIBUS ARE HANDLED IN THIS SECTION
: UBI
                                                                                               K-MP-L0004-0-21-C
                          THIS SECTION FOR CPU READS TO UNIBUS
                 1263
                  1265
                                   UB_CMI.ADDR,
                                                             ISSYN REMOVED FROM LAST TRANSACTION
                  1266
U 014, 291C,20 1267
                                                              PASSERT ADDRESS AND BEGIN DESKEW TIME
                                   NEYT/CPU.RD.10
                  1268
                  1269
                                                              ISSYN STILL ASSERTED, DON'T COUNT
                                   UB_CMI.ADDR,
                                   UB.STAT?,
NEXT/CPU.RD
                                                              IDESKEW TIME YET
U 015, 141C,24
                 1272
                          CPU.RD.10:
                  1274
                  1275
U 029, 3A1C,20
                                                            FEAT 125 FOR DESKEW
                 1276
                                   UB_CMI.ADDR
                  1278
                          =10
                          CPU.RD.20:
                                   UB_CMI.ADDR,
                  :280
                                                            SASSERT MSYN AND WAIT FOR SSYN
                                   MSYN, UB. STAT?,
NEXT/CPU.RD. 20
                  1282
U 03A, 3A1C,A4
                  1284
                                   ;11-----;
UR_CMI.ADDP, MSYN ;KEEP MSYN SO SLAVE HOLDS DATA
U #38, 381C,A#
                 1286
                  1287
                                   PRTC/CPU.WRT,
UPDATA/HI-Z,UA.CTRL/XMIT,
                  1289
                                                             IKEEP ADDRESS ON UNIBUS
0 038, 2814,00
                 1291
                                   "EXT/CPU.WRT.25
```

```
.MCR [169,5597] M1cro-2.1 18(40)
; UBI
                                                  8:52:33 18-Feb-1980
                                                                                                                      Page 10
        .MIC [169,5507] DATO THROUGH BUFFERED DATA PATH
                         .TOC "DATO THROUGH BUFFERED DATA PATH"
                 1294
                         IDATO(B) THROUGH BDP THAT NEEDS TO DO A CMI WRITE
                 1295
                 1296
1297
                         BDP.DATO.45:
                                 PPIC/DATO, CMI.STAT?, GO THROUGH WITH IT ANYWAY, WE'RE ALREADY ON BUS
                 1298
                                 BUFCMI/ADDR,
                 1299
U 048, 9812,26
                :300
                                 NEXT/BDP.DATO.10
                 :301
U 049, 0F02,20
                                                           ILOST MSYN, ABORT
                1303
                                 NEXT/IDLE
                 1305
                                  PRTC/DATO, CHI.STAT?,
                                                           BUS HON, ASSERT DATA NEXT CYCLE
                 1307
                                 BUFCMI/ADDR.
U 94A, 9812,26
                                  NEXT/BDP.DATO.10
                                                           SAND CHECK FOR LONGWORD WRAPEDBBZ
                         BDP.DATO:
                 :309
                                                           SWAITING TO WIN THE CMI
                                 REQ.WRT?,
NEXT/BDP.DATO.05
                 1311
U 04B, C80A,2A
                 1313
                         BUPU
                 1314
                         BDP.DATO.19:
                         ITHE NEXT FOUR ENTRIES OCCUR FOR THE OFFSET CASE WHERE THE DATA WRAPS
                 ;315
                 1316
                                  PRICIDATO, CMI. STAT?, ; DBE_ STILL HELD ON BUS, KEEP WAITING
U 018, 1812,26
                 1318
                                 NEXT/BDP.DATO.10
                 :320
                                  PPTC/DATO, CMI.STAT?, JOBBZ STILL HELD ON BUS, KEEP WAITING
U 019, 1812,26 1322
                                 NEXT/BDP.DATO.10
U 01A, 6FP2,20 1325
                                  NEXT/DDP.50
                 1326
                 1327
                                                          1DB3Z HAS GONE AWAY, PUT BYTE IN
1BDP REGS AND SET FLAGS
                                  INCR, ROPC/DATOW,
                                 BUT/SET. LAG,
NEXT/BDP.DATO. 20
U 018, 1F83,23
                :330
                 1331
                 ,332
                         THESE FOUR APE FOR NO WRAP AROUND
                                 PRTC/DATO, CMI.STAT?, NEXT/BDP.DATO, 10 :S
                 1333
                                                           INO WRAP AROUND, DBBZ STILL ASSERTED ISO KEEP THE DATA ON THE BUS
U 01C, 1812,26 1335
                 1337
                                  PRIC/DATO, CMI, STAT7, ; NO WRAP AROUND, DBBZ STILL ASSERTED REXT/DDP.DATO, 10 ; SO KEEP THE DATA ON THE BUS
U 010, 1812,26
                1339
                                 NEXT/BDP.DATO.10
                 1340
                                  ;110-----
                 :341
U 01E, 6F07,20
                 1342
                                 NEXT/DDP.50
                 1343
                 1344
                         BDP.DATO.20:
                                 ;345
U 01F, 6802,60
                 1347
```

```
.MCR [160,5507] M1cro-2.1 18(40)
.MIC [160,5507] BDP DATI'S
                                                    8:52:33 19-Feb-1980
: UBI
                                                                                   K-MP-L0004-0-21-C
                                                                                                                           Page 11
                          .TOC "BDP DATI'S" ;HERE FOR EDP DATI'S THAT NEED CMI ACTION
                  :348
                 1349
1350
1351
                                   CHI.STAT?,
BUFCMI/ADDR,
                  :352
                                                             GOT THE BUS. JUST AS WE LOST MSYN
                  1353
                  1354
U 050, AP02,26
                                   NEXT/BDP.DATI.20
                  1355
                  1357
U 051, 0F02,20
                                   NEXT/IDIE
                                                             LOST MYSN, ABORT
                  1359
                  1360
                                   CMI.STAT?,
BUFCMI/ADDR,
                  1361
                                                           GOT THE BUS , GET READY FOR DATA
                  1362
U 052, A002,26
                                   NEXT/BDP.DATI.20
                  1364
                                                             INF GOT PERE CAUSE WE DIDN'T WIN THE BUS
                  1366
                                   REQ.RD?.
U 053, DePA, PA
                                   NEXT/ROP.DATT.10
                  1368
                          2000
                          1369
                  1370
                  1371
                                   DP_CMI.CMI.STAT?.REG. ;DBBZ STILL ASSERTED, KEEP WAITING
U 020, 2026,0E
                                   NEXT/BDP.DATI.20
                 :373
                  1375
                                   :001-------
                                   DP_CMI.CMI.STAT?.REG. :DBbZ STILL ASSERTED, KEEP WAITING
U 021, 2026,0E
                                   MEXT/BPP.DATI.20
                  : 379
                                   NEXT/DDP.50
U 022, 6F02,20
                                                             DEBZ GONE, NXM STATUS RETURNED
                  1381
                                                             ;DATA IN BUFFER, NOW MOVE TO UD
                                   BDPC/DATIW,
UADATA/HI-Z,REQ,
                  :383
U 023, 5762,08
                  :385
                                   MEXI/RDP.DATI.35
                  1386
                  1387
                          THESE FOUR ENTRIES ARE FOR NO WRAP-AROUND
                  1388
                                   ;1(A)----;
                                                             ;DBBZ STILL ASSERTED, KEEP WAITING ;*****REMOVE REQ WITH UCN-C
                  389
                                   DP_C41, CMI.STAT?,
                                   NEXT/BOP.DATI.20, REQ
U 024, 2026,0E
                 1390
                  1392
                                   DP_CMI, CMI.STAT?,
NEXT/BDP.DAII.20, REQ
                                                             DBOZ STILL ASSERTED, KEEP WAITING
U 025, 2026,0E
                 1394
                  1395
                  1396
U 026, bF02,20
                                   NEXT/DOP.50
                                                             :DBBZ GONE, NXM STATUS RETURNED
                  1398
                                   UB.RD_DP.SSYN,
NEXT/BDP.DATI.55,REO
                                                             ;DBBZ'S GONE, WE GOT THE DATA
                  1460
U 027, 5806,58
                                                             : *****REMOVE REQ WITH UCN-C
                  : 402
       .MCR [160,5507] Micro-2.1 18(40)
.MIC [160,5507] BDP DATI'S
                                                    8:52:33 18-Feb-1980
                                                                                                                           Page 12
                  1404
                          #00
                  1405
                          BDP.DATI.30:
                                   HOLD.BO,CMI.STAT?,
                  1406
                  1407
                                                             IGOT THE BUS , GET READY FOR DATA
                                   BUFCMI/ADDR, INCR,
NEXT/BDP.DATI.40
                  408
U 054, AC23,06
                  1409
                  :411
U 055, 0F02,20
                                   HEXT/IDLE
                                                              ILOST MSYN, ABORT
                  1413
                                                             GOT THE BUS , GET READY FOR DATA
                                   HOLD.BO, CMI.STAT?,
BUFCMI/ADDR, INCR,
                                   NEXT/BDP.DATI.40
U 056, AC23,06
                  1418
                          BOP.DATI.35:
                  1419
                                   PEO.RD?, INCR, BDPC/DATI, 1GET THE BUS FOR THE SECOND
                  1420
U 057. D428.0A
                                   NEXT/BDP.DATI.30
                  1422
                  1423
                          =100
                  1424
                          BDP.DATI.44:
                  1426
                                   :100------
                                   DP_CMI, CMI.STAT?, INCR, IDBBZ STILL ASSERTED, KEEP WAITING PEXT/BDP.DATI.40, REQ ;*****REMOVE REQ WITH UCN-C
U 02C. 2C27.0E
                  1428
                  : 430
                                   PD_CMI, CMI.STAT7, INCR, DBBZ STILL ASSERTED, KEEP WAITING NEXT/BDP.DATI.40, REQ :******REMOVE REQ WITH UCN-C
U-020, 2027,0E 1432
U 02E, 6F02,20 1435
                                                             IDBBZ GONE, NXM STATUS RETURNED
                  1436
                  :438
                                    ;1;1----;
                                                           JDBBZ'S GONE, WE GOT THE DATA
;*****EMOVE REQ WITH UCN-C
                                   UB.RD_DP.SSYN,
NEXI/HDP.DATI.55,REQ
U 02F, 5P06,58 ;440 ;441 ;442
                           BDP.DATI.541
                                   1444
 U 05A, 0002,27 1445
                  1446
                           BDP.DATI.55:
                  :448
                                   UB.RD_DP,
SSYN,UR.STAT?,
MEXI/BDP.DATI.50,REQ
                                                             WAIT FOR MSYN TO GO AWAY
U 058, 5Au6,5C 1451
```

```
.MCR [160,5507] Micro-2.1 18(40) 8:52:33 18-Feb
.MIC [160,5507] THIS SECTION HANDLES DATO'S TO THE DDP
                                                8:52:33 18-Feb-1980
                                                                        K-MP-L0004-0-21-C
                                                                                                                Page 13
: UBI
                        .TOC "THIS SECTION HANDLES DATO'S TO THE DDP"
                1455
1456
                        #110
                1457
                                PRTC/DATO, BUFCMI/ADDR, IWE GOT IT
                1458
                                CHI.STAT?,
NFXT/DDP.DATO.10
                : 459
U 05C, B012,26
                1460
                1461
                1462
U 05D, 0F02,20
                1463
                                NEXT/IDLF 14SYN DISAPPEARED
                1464
                1465
                                PRTC/DATO, BUFCMI/ADDR, :WE GOT IT
                1466
                                CMI.STAT?,
NEXT/DDP.DATO.10
U 05E, 8012,26
                1468
                                *11-----
                1479
                                REQ. WRT?,
NEXT/DDP.DATO
                                                     TRYING TO GET THE BUS
U ØSF, DCWA, 2A
                1472
                1474
                        3000
                1475
                        THE FOUR CASES ARE FOR THE WRAPAROUND SITUATION
                1476
                                1000-----
                1478
                                PRTC/DATC, CHI. STAT?, WAITING FOR DBBZ
U @30, 3012,2E
               :480
                                REG, NEXT/DDP. DATO. 18
                1481
                1482
                                PRTC/DATO, C'AI, STAT?,
                                                       MAITING FOR DBEZ
U 031, 3012,2E
               1484
                                REG, VEXT/DDP.DATO.10
                1485
                                NXM STATUS
U 032, 6F02,20
                488
                                ; () 1 1 ----- ;
                1489
                490
                                REQ.XTRAT,
                                                       DONE WITH THE FIRST, DO THE SECOND
U 033, EPUB, 2B
               1491
                                NEXT/DDP.DATO.20
                1492
                       1493
                :495
                                                      WAITING FOR DBBZ
U 034, 3012,26
                1497
                               PRTC/DATO, CMI.STAT?, IWAITING FOR DBbZ REXT/DDP.DATO.10
                1499
U 035, 3012,26 ;500
                1502
U 036, 6Fv2,20
                :503
                                                       INXM STATUS
                1504
U 037, 6802,60 ,506
                                SSYN, NEXT/DDP.45
                                                       DONE
```

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MCR [160,5507] M1Cro-2.1 18(40) 8:52:33 18-Feb MIC [160,5507] THIS SECTION HANDLES DATO'S TO THE DDP
; UBI
                                                      8:52:33 18-Feb-1980
                                                                                                                               Page 14
                           ITHIS PAGE CONTINUES THE DOP DATO WRAP CASE CODE,
                           IAND ALSO HAS THE WAITING FOR MSYN TO GO AWAY STUFF
                  1509
                  1510
                           =99
                           DDP.DATO.20:
                  1511
                  1512
                                    PRTC/DATO, BUT/SET, FLAG, 18US WON INCR, BUFCMI/ADDR,
                  1513
                  1514
U 060, E713,23
                                    NEXT/DDP.DATO.25
                  1516
                                    NEXT/IDLE
                                                              MSYN WENT AWAY
U 061, JF02,20
                 :518
                  1520
                                    PRTC/DATO, RUT/SET, FLAG, ; BUS WON INCR, BUFCMI/ADDR,
U 062, E713,23
                                    NEXT/DDP.DATO.25
                  1524
                  1525
                                    REG.XTRA?,
NEXT/UDP.DATO.20
                                                             TRYING TO GET THE BUS
U 063, E00B,2B
                  1527
                           DDP.DATO.251
                  1529
                  1530
                                    PRTC/DATO, CMJ. STAT? ; THIS IS CONSTRAINED AS TARGET OF SET, FLAG
U 067, 3C12,26
                           #100
                           DOP.DATO.30:
                  :533
                                    | 100-----|
PRTC/DATO,CMI.STAT7, | WAITING FOR NO DBBZ
NEXT/DDP.DATO.30 |
                   1535
U 03C, 3C12,26
                  1537
                                    PRTC/DATO, CMI. STAT?,
                                                                ; WAITING FOR NO DBBZ
U 03D, 3C12,26 1540
                                    PEXT/DDP.DATO.30
                  1541
U 03E, 6F02,20
                                    NEXT/DDP.50
                                    SSYN, NEXT/DDP. 45
U 03F. 6802.60
                                                               DONE
                  1546
                           E10
                           DDP - 401
                  1548
                                                               INO MSYN, REMOVE DATA AND SSYN
U 86A, 9082,27
                  :550
                                    FIRST.FORK?
                           DDP.451
                  1552
                                                            JWAITING FOR MSYN OR INT TO GO AWAY
JBY SEEING IF SSYN GOT CLEARED
                                    SSYN, UB, STAT?,
U 068, 6A42,64
                  1554
                                    NEXT/DDP.40
                  :556
                           DDP.47:
                  1557
                                                               INO MSYN, REMOVE DATA AND SSYN
U 96E, 0002,27
                  1558
                                    FIRST.FORK?
                           DDP.50:
                  1559
                                    111-----
                   1560
                                    UB.STAT?, NEXT/DDP.47 ; WAITING FOR MSYN TO GO AWAY
U 06F, 6F02,24
                  1561
```

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K-MP-L0004-0-21-C
; UBI
      MCR (160,5507) Micro-2.1 18(40)

BIS2:33 18-Feb-1980

K-MP-LOOO

HIC (160,5507) THIS PAGE IS WHERE WE COME FOR DATE'S THROUGH THE DIRECT DATA PATH
                 1563
                         .TOC "THIS PAGE IS WHERE WE COME FOR DATI'S THROUGH THE DIRECT DATA PATH"
                1564
1565
                        1
E43
                 1566
                        DDP.DATI:
                                IVA
CMI.STAT?, ;
BUFCMI/ADDR,
                 1567
                 1568
                                                        GOT THE BUS, WAIT FOR DATA
                1569
11 070, C002,26
                                 NEXT/DDP.DATI.19
                 1571
                 1572
U 071, 0F02,20
                                                        LOST MSYN
                1573
                                 NEXT/IDLE
                 1574
                                 CMI.STAT?,
BUFCMI/ADDR,
                                                       GOT THE BUS, WAIT FOR DATA
                 1576
U 072, CM02,26
                 1578
                                 NEXT/ODP.DATI.10
                 1579
                 ;58¢
                                 HEO.RD?,
NEXT/DDP.CATI
                                                         TRY TO GET THAT BUS
                 1581
U 073, FUUA, 0A
                 1583
                 1584
                        1585
                 1597
                 ,588
U 040, C066,0E
                1589
                                 NEXT/DDP.DATI.10
                 1590
                                 1591
1592
U 941, C966,0E
                1593
                                 MEXT/DDP.DATI.10
                 1594
                                 ;019----;
NEXT/DDP.50 ;
                 1595
U 042, 6F02,20
                1596
                 1598
                 1599
                                 REQ.RD?, INCR, BDPC/DATI, ; WE GOT THE FIRST, NOW DO THE SECOND
                                 NEXT/BDP.DATI.30
U 643, D428,0A
                1600
                 1692
                                                       ;WAITING FOR DATA, NO WHAP-AROUND ;*****REMOVE REQ WITH UCN-C
                                 DP_CMI.W,CMI.STAT?,
U 044, C066,0E 1604
                                 NEXT/DDP.DATI.10, REG
                 1605
                 1696
                                                       WAITING FOR DATA, NO WRAP-AROUND SHAMMER OVER REQ WITH UCN-C
                                 DP_CMI.W,CMI.STAT?,
                 1607
U 045, C066,0E
                1608
                                 NEXT/DDP.DATI.10, REQ
                 1609
                                 1610
                                                         INXM, WAIT THE MSYN OUT
U 046. 6F02.20
                1611
                                 1111-----
                 1613
                                                         JDBDZ WENT AWAY
JGIVE THE UBUS DATA, AND ISSUE SSYN
J*****REMOVE REQ WITH UCN-C
                                 UH.RO_DP.
                                 SSYN.
BEXT/BDP.DATI.55,REQ
                 1615
U 047, 5B06,58
       .MCR [160,5507] M1cro-2.1 1B(40)
.MIC [160,5507] PURGE CODE
; UBI
                                                 8:52:33 18-Feb-1980
                                                                                                                   Page 16
                         .TOC "PURGE CODE"
;THIS PAGE HANDLES PURGES
                 1619
1620
                         = 1 Ø
                 1621
                 1622
                         PURGE:
                 1623
                                 INOT EMPTY IF WE GET HERE
                 1624
                                 REG.PUR?,
                                 NEXT/PURGE.10
U 076, FADD,2A
                 1625
                 1626
                                 U 077, 0F02,20 1629
                 1639
                 1631
                         PURGE.10:
                                 ;10------
                 1632
                                 PRTC/DATO, UA.CTPL/HI-Z,
BUFCMI/ADDR,
                 1634
                                 NEXT/PURGE.20
U 07A, CD11,20
                 1636
```

PRTC/DATO, CMI, STAT?, ;DO WRITE AND WAIT FOR NO DBBZ NEXT/PURGE. 20

1638

1640 1641 1642

1643

1647

1648 1649

1644

U 078, FAUD, 2A

U 04D, 4D12,26

U 04F, 0F02,20

REO.PUR?.

PURGE.201

NEXT/PURGE.10

1111-----

NEXT/IDLE FALL DONE

; UBI .MCR [160,5507] M1cro-2.1 18(40) .MIC [160,5507] POWER UP CODE 8:52:33 18-Feb-1980 K-MP-L0004-0-21-C Page 17 .TOC "POWER UP CODE" REGION /80, OFF 1651 1652 1653 U 080, 0F02,20 NEXT/IDLE U 081, 0F02,20 U 082, 0F02,20 1654 NEXT/IDLE NEXT/IDLE U 083, UF02,20 U 084, UF02,20 1656 NEXT/IDLE NEXT/IDLE U 085, 0F02,20 U 086, 0F02,20 U 086, 0F02,20 U 087, 0F02,20 1658 1659 NEXT/IDLE NEXT/IDLE NEXT/IDLE 1661 NEXT/IDLE NEXT/IDLE U 489, 0F02,20 U 08A, 0F02,20 U 08B, 0F02,20 1663 NEXT/IDLE U 08C, 0F02,20 U 08D, 0F02,20 U 08E, 0F02,20 U 08F, 0F02,20 NEXT/IDLE NEXT/IDLE 1665 1666 1667 MEXT/IDLE MEXT/IDLE U 090, 0F02,20 NEXT/IDLE U 091, 0F02,20 U 092, 0F02,20 1670 NEXT/IDLE NEXT/IDLE 1672 1673 NEXT/IDLE NEXT/IDLE U 093, 0F02,20 U 093, 0F02,20 U 094, MF02,20 U 095, 0F02,20 U 096, WF02,20 U 097, WF02,20 U 098, 0F02,20 U 099, 0F02,20 1674 NEXT/IDLE NEXT/IDLE 1676 1677 NEXT/IDLE NEXT/IDLE 1678 NEXT/IDLE U 09B, 0F02,20 U 09C, 0F02,20 U 09C, 0F02,20 U 09E, 0F02,20 U 09F, 0F02,20 1680 1681 1682 1683 NEXT/IDLE MEXT/IDLE NEXT/IDLE

.MCR [160,5507] Micro-2.1 18(40) .MIC [160,5507] POWER UP CODE 8:52:33 18-Feb-1980 ; UBI ; UBI U CAO, 0F02,20 U 0A1, 0F02,20 U 0A2, 0F02,20 U 0A3, 0F02,20 U 0A4, 0F02,20 U 0A5, 0F02,20 U 0A6, 0F02,20 U 0A7, 0F02,20 U 0A8, 0F02,20 1687 NEXT/IDLE NEXT/IDLE NEXT/IDLE 1689 MEXT/IDLE MEXT/IDLE 1690 1691 1692 NEXT/IDLE NEXT/IDLE NEXT/IDLE 1693 1694 U 0A9, 0F02,20 U 0AA, 0F02,20 U 0AB, 0F02,20 NEXT/IDLE NEXT/IDLE NEXT/IDLE 1695 1696 1697 U MAC, 0F02,20 U MAD, 0F02,20 1698 NEXT/IDLE NEXT/IDLE NEXT/IDLE NEXT/IDLE U 0AE, 0F02,20 U 0AF, 0F02,20 1700 U 080, 0F02,20 U 081, 0F02,20 1702 NEXT/IDLE NEXT/IDLE NEXT/IDLE NEXT/IDLE U 082, 0F02,20 U 083, 0F02,20 1704 U 983, 9F92,20 U 984, 9F92,20 U 985, 9F92,20 U 986, 9F92,20 U 988, 9F92,20 U 988, 9F92,20 U 988, 9F92,20 U 988, 9F92,20 U 98C, 9F92,20 U 98C, 9F92,20 U 98C, 9F92,20 1706 NEXT/IDLE NEXT/IDLE 1708 1709 1710 NEXT/IDLE NEXT/IDLE NEXT/IDLE NEXT/IDLE NEXT/IDLE NEXT/IDLE 1711 1712 1713 1714 NEXT/IOLE NEXT/IDLE 1715 U UBF, PFU2,20 1717 NEXT/IDLE

; UBI	.MCR [160,5507] .MIC [160,5507]	Micro-2.1 18(40) POWER UP CODE	8:52:33 18-Feb-1986	K-MP-L0004-0-21-C	Page 19
U ØCØ,	UFU2,20 1719	NEXT/IDLE			
	UFU2.20 1720	MEXT/IDLE			
U ACZ,	0F02,20 1721	NEXT/IDLE			
U ØC3,	UFU2,20 1722	NEXT/IDLE			
U 0C4,	OF02,20 1723	NEAT/IDLE			
U ecs,	₽F02,20 1724	NEXT/IPLE			
U AC6,	3F02,20 1725	NEXT/IDLE			
U OCT.	0FU2,20 1726	NEXT/IDLE			
U OCB.	ØF02,20 ;727	NEXT/IDLE			
	UF02,20 ;728	NFXT/IDLE			
	0F02,20 1729	NEXT/IDLE			
	UF42,20 1730	NEXT/IDLE			
	UFU2,20 1731	<b>NEXT/IDLE</b>			
	0F02,20 1732	NEXT/IDLE			
	0FU2,20 1733	NEXT/IDLE			
	WF02,20 1734	NEXT/IDLE			
	0F02,20 1735	MEXIVIDLE			
	ØFU2,20 1736	NEXT/IDLE			
	UFU2,20 1737	VEXIVIDE			
	UF92,20 :738	"EXT/IDLE			
	0F02,20 :739	MEXT/IDLE			
	0F02,20 1743	WEXT/INLE			
	0F62,20 1741	NEXT/IDLE			
	UFU2,20 1742	NEXT/IDLE			
	UFU2,20 ;743	MEXT/IDLE			
	0F02,20 ;744 0F02,20 ;745	NEXT/IDLE			
	0F02,20 ;745 0F62,20 ;746	NEXT/IOLE NEXT/IOLE			
	0F02,20 1747	NEXT/IDLE			
	UFA2,20 1748	NEXIVIDLE			
	ØFu2,20 1749	NEXT/IDLE			
	AF02,20 ;750	NEXT/IOLE			
	1751	PEAT/IVED			
	.,,,				

8:52:33 18-Feb-1980

;785

; UBI	.MCR [160,5507] Micro-2		) eference		18-Feb-		Names and	Defined	Values			Page 2	2
BDPC		53 #											
	DATI	54 #	372	376	389	393	407	415	421	427	431 #	599 #	
	DATIW	55 *	161	166	383	588	592	603	607	•••	43. 4	377 *	
	DATO	57 #	147	156	303	200	376	003	007				
	DATOB	58 #	142	151									
	DATOW												
UFCMI	DATON	56 #	171	328									
OLCHI		47 #											
	ADDR	48 #	162	176	195	199	211	225	299	307	311 #	354 #	36
		366	408	416	421	458	466	471	490	514 #	522 #	526	56
		577	581	588	592	599	603	607	624 #	634 #	638		
	HI-2	49 #											
UT		90 *											
	ARB	93 #	162	176	195	199	225	311	366	421	471 #	581 #	59
		624	638										
	CLK.FLAGS	96 #	141	146	152	157							
	CMI.STATUS	97 #	221	298	306	317	321	334	33R	353	361 #	372 #	37
		399	393	407	415	427	431	459	467	479 #	483 #	495	49
		531	535	539	568	576	588	592	603 #	607 .	644		
	EMPTY	92 #	203	207									
	FIRST.FORK	98 #	216	445	550	558							
	SLT.FLAG	94 #	172	211	329	490	513	521	526				
	UB.STATUS	95 #	185	191	249	250	271	282	450	553	561 #		
47 ADB	OB-SINIUS	87 #	103	171	241	230	2/1	202	130	333	301 #		
MI.ARB	P.COURGE.		162	167	176	195	199	211	225	311	366 #	372 4	37
	REQUEST	88 #											
		384	390	394	401	421	428	432	440	451 #	471 #	480	48
		490	526	581	588	592	599	604	608 #	616 #	624	630	
SYN		74 #											
	ASSEPT	75 4	256	282	286								
EXT		51 *											
	BDP.DATI.10	177	351 #	367									
	BDP.DATI.20	355	363	369 #	373	377	390	394					
	BDP.DATI.30	163	405 #	422	600								
	BDP.DATI.35	385	419 #										
	BDP.DATI.40	409	417	425 #	428	432							
	BDP.DATI.45	168	437 #										
	BDP.DATI.50	443 *	451										
	BDP.DATI.55	401	440	447 *	616								
	BDP.DATO	143	148	309 #	• • -								
	HDP.DATO.05	226	296 #	312									
	BDP.DATO.10	300	308	314 *	318	322	335	339					
	PDP.DATO.20	153	173	330	344 #		•••						
	CPU.PD	192	264 #	272	34								
	CPU.RD.10	267	274 #	• • •									
	CPU.RD.20	279 #	283										
		186	233 *	241									
	CPU.WRT		243 #	441									
	CPU.WRT.10	236											
	CPU.WRT.20	248 #	252										
	CPU.WRT.25	257 #	291										
	DDP.40	548 #	554										
	DDP.45	229	346	566	546	551 #							
	DUP.47	556 *	561										
	DDP.50	325	342	380	397	435	487	503	543	559 #	596 #	611 *	
	DUP.DATI	200	566 #	582									
	DDP.DATI.10	57P	578	585 *	589	593	604	608					

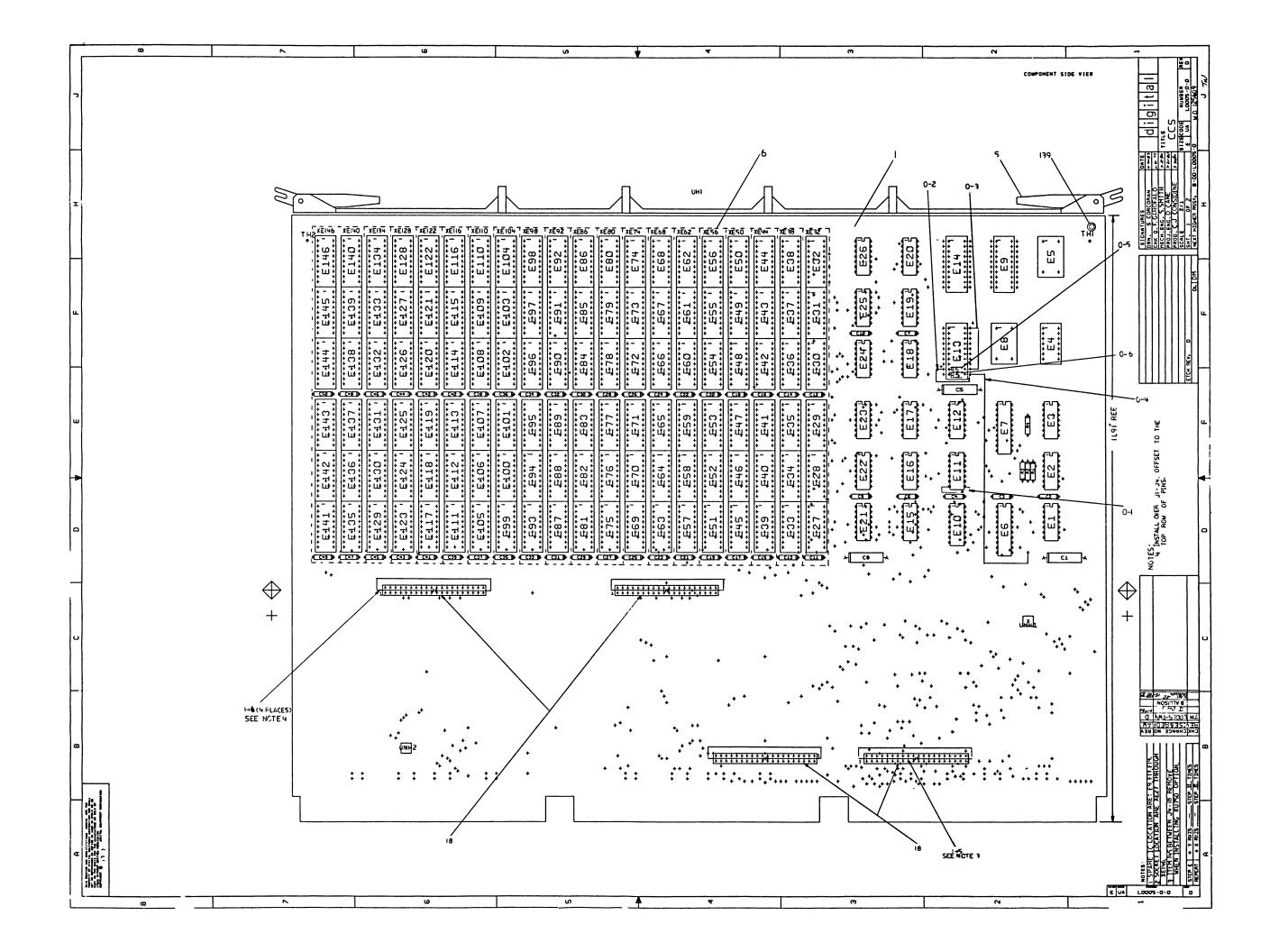
; UBI	.MCR [160,5507]		0) Reference	8:52:33 Listing			K-			-0 -21	-C	Page 23	)
	DDP.DATO.10 DDP.DATO.40 DDP.DATO.25 DDP.DATO.30	460 212 515 533 *	468 491 523 536	475 # 511 # 529 # 540	480 527	484	496	500					
	ICLE	214 <b>#</b> 655 667 679	260 656 668 680	303 657 669 681	358 658 670 682	412 659 671 683	463 660 672 684	518 661 673 686 #	573 662 674 # 687 #	628 663 # 675 # 688	648 <b>*</b> 664 <b>*</b> 676 689	653 # 665 677 690	654 666 678 691
		692 704 716 729 741	693 705 717 730 742 #	694 706 719 731 # 743 #	695 707 720 # 732 # 744	696 708 # 721 # 733 745	697 • 709 # 722 734	698 # 710 723 735 747	699 711 724 736 748	700 712 725 737	701 713 726 738	702 714 727 739	703 715 728 740
	MAIN.29	754 # 754 # 766 # 778 158	755 * 767 779 219 *	756 768 780	757 769 781	758 770 782	746 759 771 783	760 772	761 773	749 762 774	750 763 775	752 764 776 #	753 765 # 777 #
PRTC	MAIN.LOOP PURGE PURGE.10 PURGE.20	139 # 204 625 635	216 208 631 # 642 #	445 622 # 639 645	550	558							
PRIC	CPU.RD CPU.WRT DATI	60 # 66 # 65 # 61 # 592	189 182 166 603	266 235 372 607	270 239 376 614	276 245 389	281 251 393	286 255 400	289 427	431	439 #	449 #	588
	PURGE.ADDR UB.ADDR	64 # 499 63 # 62 #	298 513 624 162	306 521 638 176	317 531 195	321 535 199	334 539 211	338 633 225	458 644 311	466 366	479 *	483 #	495 490
SSYN UA.CTRL	ASSERT	526 78 # 79 # 68 #	581 229	599 346	400	439	450	526	546	553	615 #		
ONICINE	HI-Z FCV FCV.INCR	70 * 72 * 71 *	184 162	190 172	259 211	624 328	633 408	638 416	421	427	431 #	490 •	514
UBDATA	XMIT	522 69 # 81 #	526 235	599 239	245	251	255	266	270	276	281 #	286 #	290
	DRIVE.UD.NOPB HI-Z	83 # 84 # 85 # 393	235 245 162 407	239 251 167 415	400 255 176 421	439 183 427	199 431	614 290 581	366 588	372 592 #	376 * 599 *	384 # 603	389 607
	RCV	82 #											

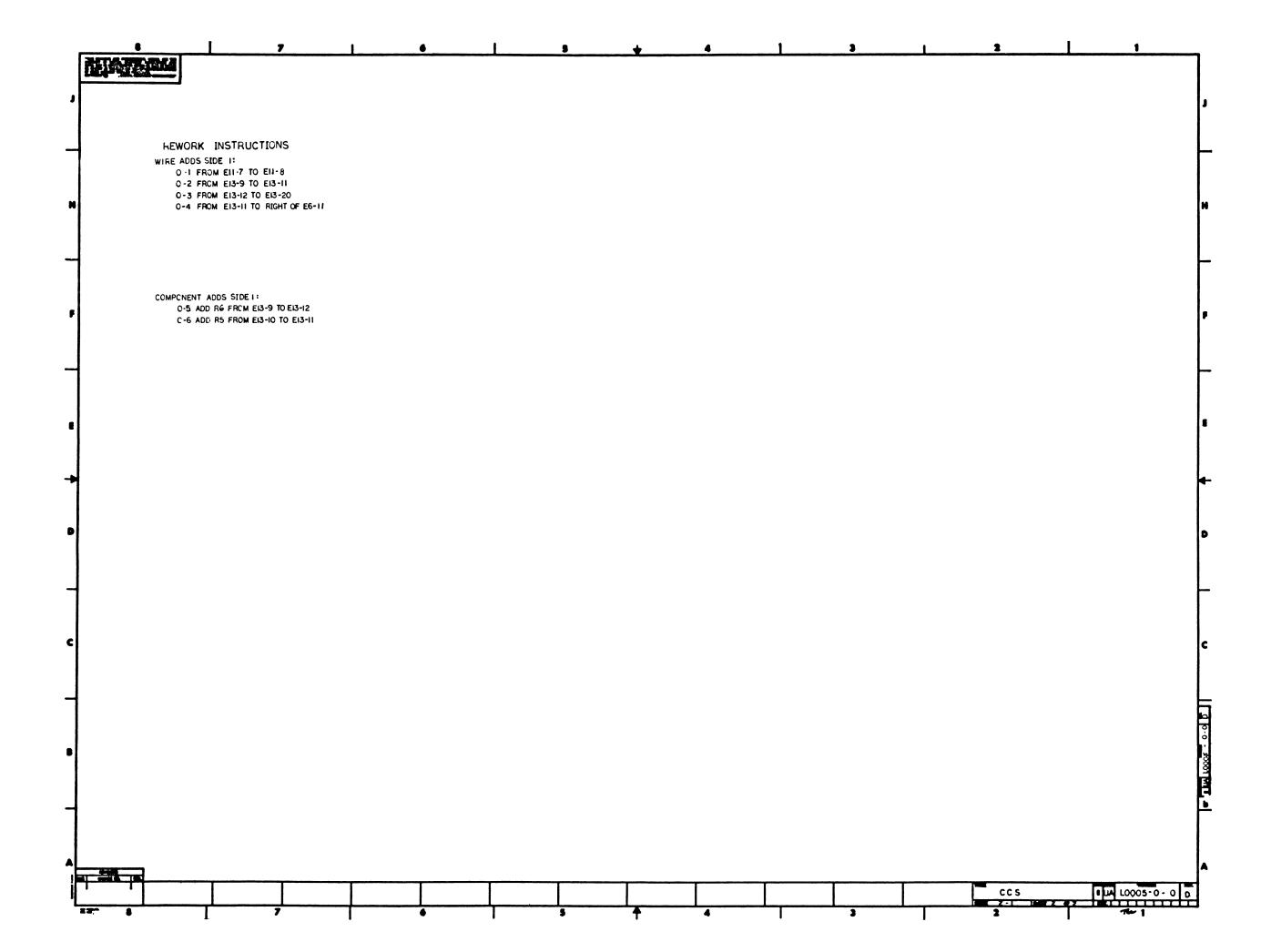
; UBI .MCR [160,5507]	Micro-2.1 18(40) Cross Reference	8:52:33 Listing		1980 Macro Na	mes					Page 24	
CMI.STAT?	120 # 298	306	317	321	334	338	353	361	372 *	376 #	389
	393 407	415	427		459	467	479	483 #	495 #	499	531
	535 539	568	576		592	603	607 #	644		•	
DP_CMI	128 # 372	376	389		427	431					
DP_CMI.W	129 # 588	592	603	607	•••	•••					
EMPTY?	118 # 203	207	•••	001							
FIRST.FORK?	119 # 216	445	550	558							
HOLD.BØ	135 # 407	415									
INCR	125 # 162	172	328	408	416	421	427	431	514 *	522 #	599
		• • •			•••				- • • •		
MSYN	124 # 250	282	286								
REQ	126 # 167	372	376	384	390	394	401	428	432 #	440 #	451
	480 484	588	592		608	616					-
REO.PUR?	117 # 624	638									
REQ.RD?	116 # 162	176	199	366	421	581	599				
REQ.WRT?	115 # 195	225	311	471							
REO.XTRA?	134 # 211	490	526								
SSYN	123 # 229	346	400	439	450	506	546	553	615 #		
UB_RD_DP	133 # 400	439	449	614							
UB.STAT?	121 # 185	191	240		271	282	450	553	561 #		
UB_CMI.ADDR	132 # 266	270	276		286	_			-		
UB_CMI.4RT	130 # 235	239									
UB_CMI.WRT.NOPB	131 # 245	251	255								

; 1	UBI	.MCR	[160,5507]	Micro-		n / Line		3 18-Feb Index	-1980	K-MP -L0004 -0-21 -C	Page 25
U	000		143=	148=	153=	158=	163=	168=	173=	177=	
U	800		186=	192=	196=	200=	204=	208=	212=	216=	
	010		236≡	241=	221=	226=	267=	277=	245	229=	
U	018		318=	322=	325=	330=	335=	339≖	342=	346≠	
	020		373=	377=	380=	385=	390=	394=	397=	401=	
	Ø28		260	276	252=	255=	428=	432=	435=	440=	
U	030		480=	484=	487=	491=	496=	500=	503=	506=	
U	038		291		283=	286≈	536=	540=	543=	546=	
U	040		589=	593≖	596₽	600=	604=	608=	611=	616=	
U	Ø48		300=	303=	308=	312=		645=		648m	
U	<b>95</b> 0		355≈	358≡	363=	367=	409=	412=	417=	422=	
U	958				445=	451=	46P=	463=	468m	472=	
U	Ø6 <b>Ø</b>		515=	518=	523≅	527=				531=	
U	Ø68				550=	554=			558=	561=	
U	070		570=	573=	578=	582=			625=	628=	
	078				635≇	639=			•		
U	080		653	654	655	656	657	658	659	660	
U	989		661	662	663	664	665	666	667	668	
U	990		669	670	671	672	673	674	675	676	
U	P98		677	678	679	689	681	682	683	684	
U	949		686	687	688	689	690	691	692	693	
ij	849		694	695	696	697	698	699	700	701	
	080		702	743	704	705	706	707	708	709	
U	0B8		710	711	712	713	714	715	716	717	
U	00		719	720	721	722	723	724	725	726	
	0C8		727	728	729	730	731	732	733	734	
	000		735	736	737	738	739	740	741	742	
	800		743	744	745	746	747	748	749	750	
	PER		752	753	754	755	756	757	758	759	
	0E8		760	761	762	763	764	765	766	767	
	0F0		768	769	770	771	772	773	774	775	
	0F8		776	777	778	779	780	781	782	763	

B DD size code NUMBER DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** CDEFH MODULE REVISION CDEFH B-DD-L0005-0 1 CCS DRAWING DIRECTORY CCCD 2 E-UA-L0005-0-0 CCS UNIT ASSEMBLY CDEFH K-PL-L0005-0-DBP 4 CCS PARTS LIST E-MD-5013516-0-0 6 c c C C D CCS DRILL & ETCH DRAWINGS DDDDD 5013516 ETCHED BOARD DDDDE K-PC-L0005-0-DBC CCS PC DESIGN DATA BASE 2 clclClClC E-EC-5013516-0-0 CCS ETCH CUT DRAWINGS ccDDE CCS DESIGN DATA BASE SUDS K-CS-L0005-0-DBS cDDE D-CS-L0005-0-1 1 CONTROL STORE ADDRESS DECCDE CCDCC D-CS-L0005-0-2 1 \* ADDRESS BUFFERS CCCCC \* D-CS-L0005-0-3 1 ADDRESS BUFFERS CCDCC \* 1 D-CS-L0005-0-4 PROM ARRAY CCCCC \* 1 D-CS-L0005-0-5 PROM ARRAY c c C C C \* 1 D-CS-L0005-0-6 PROM ARRAY c | c | C | C \* 1 D-CS-L0005-0-7 PROM ARRAY ccccc 1 D-CS-L0005-0-8 PROM ARRAY | c | **C | C** | C D-CS-L0005-0-9 1 PROM ARRAY CCCC D-CS-L0005-0-10 PROM ARRAY clclClCl PROM ARRAY D-CS-L0005-0-11 D-CS-L0005-0-12 PROM ARRAY 1 c|c|C|C|C D-CS-L0005-0-13 \* PROM ARRAY c|c|C|C|C IMC'S NAD OSCILLATORS D-CS-L0005-0-14 \* c|c|C|C|C D-CS-L0005-0-15 FORWARD REFERENCE 1 \* c|c|**C|C**|C FORWARD REFERENCE D-CS-L0005-0-16 ABCDE 11/750 MICROCODE K-MC-11750-0-0 **NOTES:** \*CONTROL SOURCE IS THE SUDS DATA BASE TWØØIA
TWØØ3
TWØØ3 CHG NO. NO CONTROLLED PAPER ORIGINALS EXIST 8 6 6 8 ALL DOCUMENTATION RELEASED AT REVISION "C" 9 6 6 6 M DRN. J. CASEY TITLE **USED ON OPTION/MODEL** 'THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 11/750 CCS CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J. CASEY PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF REV. NUMBER SIZE CODE ITEMS WITHOUT WRITTEN PERMISSION. B DD L0005-0 COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION PROD. J. CONSIDINE SHEET 1 OF 1

T0002-0





	BY FRTLST.3L(31)		PARTS LIST	QTY FER VARIAT	SHEET A1 OF A4
LINE ITEM	DOCUMENT NUMBER	FART NUMBER	DESCRIPTION	00	REFERENCE DESIGNATOR
1 1 2 2 3 4 5 6 7 8 9 10 10 11 11 12 13 13 14 14 15 16 16 17 17 18 18 19 20 20 21 21 22 23 23 24 24 25 25	E-MD-5013516-0-0	5013516-00 1012084-01 1012784-00 1017897-00 1216988-02 1215006-03 1300316-00 1301424-00 1910533-00 1910534-00 1910544-00 1911573-00 1911675-00 191340-00 191340-00 1913462-00 1913671-00 23821F1-00 23822F1-00 23823F1-00 23824F1-00 23825F1-00 23825F1-00 23825F1-00 23827F1-00	ETCH CIRCUIT BOARD C.S.  8 MFD 25V +75-10% AL EL.  .047 MFD 50V +80-20% CER.  .22 MFD 50V +80-20% CER.  HANDLE, MODULE, HEX TWO EJECTORS  SKT, IC 18PIN DIP TIN PLATE.  470.0 .25 W 5.0 % CC.  680.0 .25 W 5.0 % CC.  74S03 NAND GATE-QUAD 2IN, O.  74S04 INVERTER GATE-HEX 1I.  74S74 FF-D DUAL, EDGE TRIGG.  74S138 DECODER/DEMUX 3-8 LIN.  DEC 74S37 NAND GATE-QUAD 2IN.  74S32 OR GATE-QUAD 2IN.  74S32 OR GATE-QUAD 2IN.  74S374 FF-D OCTAL TRISTATE.  PIN, SQUARE ON NYLON STRIP.  F1-01  F1-01  F1-01  F1-01  F1-01  F1-01  F1-01  F1-01	1 3 7 40 1 120 3 1 1 4	C1,C5,C8 C2,C3,C4,C6,C7,C9,C10 C11-C50 XE27-XE146 R1,R2,R4 R3 E3 E12,E15,E18,E20 E2 E11 E10 E16,E17,E19,E21-E26 E1 E7 E6 E27 E28 E29 E30 E31-E32 E33
26 26 27 27 28 28 29 29 30 30		23828F1-00 23829F1-00 23830F1-00 23831F1-00 23832F1-00	F1-01 F1-01 F1-01 F1-01 F1-01	1 1 1 1	E34 E35 E36 E37 E38

REVISION HISTOR	<b>ξ</b> Υ	!BASIC PART NO: L0005 !		! !DRN: K.FRIEDGEN		! !DATE: 17-MAY-79 !			! ! Ti	!! !   !	!! !	! T!~6	! } ! L
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AUTOMATED BY PRTLST.3L(31)	PARTS L	I S T QTY PER VARIATIO	SHEET A2 OF A4
LINE ITEM DOCUMENT NUMBER PART NUMBER	DESCRIPTION	00	REFERENCE DESIGNATOR
31 31 23833F1-00	F1-01	1	E39
32 32 23834F1-00	F1-01	i	E40
33 33 23835F1-00	F1-01	1	E41
34 34 23836F1-00	F1-01	1	E42
35 35 23837F1-00	F1-01	i	E43
36 36 23838F1-00	F1-01	1	E44
37 37 23839F1-00	F1-01	1	E45
38 38 23840F1-00	F1-01	1	E46
39 39 23841F1-00	F1-01	1	E47
40 40 23842F1-00	F1-01	1	E48
41 41 23718F1-00	F1-01	1	E49
42 42 23843F1-00	F1-01	1	E50
43 43 23504F1-00	F1-01	1	E51
44 44 23505F1-00	F1-01	1	E52
45 45 23506F1-00	F1-01	1	E53
46 46 23507F1-00	F1-01	1	E54
47 47 23719F1-00	F1-01	1	E55
48 48 23844F1-00	F1-01	1	E56
49 49 23845F1-00	F1-01	1	E57
50 50 23511F1-00	F1-01	1	E58
51 51 23720F1-00	F1-01	1	E59
52 52 23846F1-00	F1-01	1	E60
53 53 23721F1-00	F1-01	<u>.1</u>	E61
54 54 23847F1-00	F1-01	1	E62
55 55 23848F1-00	F1-01	1	E63
56 56 23849F1-00	F1-01	1	E64
57 57 23786F1-00	F1-01	1	E65
58 58 23850F1-00	F1-01	1	E66
59 59 23724F1-00	F1-01	1	E67
60 60 23851F1-00	F1-01	1	E68
61 61 23852F1-00 62 62 23778F1-00	F1-01	1	E69
	F1-01	1	E70 E71
63 63 23726F1-00 64 64 23853F1-00	F1-01	4	E72
	F1-01	4	E73
65 65 23727F1-00 66 66 23854F1-00	F1-01 F1-01	<b>.</b>	E74
67 67 23855F1-00	F1-01	1	E75
68 68 23779F1-00	F1-01	1	E76
69 69 23856F1-00	F1-01	1	E77
70 70 23857F1-00	F1-01	- 1	E78
71 71 23732F1-00	F1-01	- 1	E79
72	F1-01	ī	E80
73 73 23859F1-00	F1-01	<u></u>	E81
74 74 23535F1-00	F1-01	$\bar{1}$	E82
75 75 23733F1-00	F1-01	1	E83
76 76 23860F1-00	F1-01	1	E84
77 77 23734F1-00	F1-01	1	E85
78 78 23861F1-00	F1-01	1	E86
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PARTS LIST	SHEET A3 OF A4

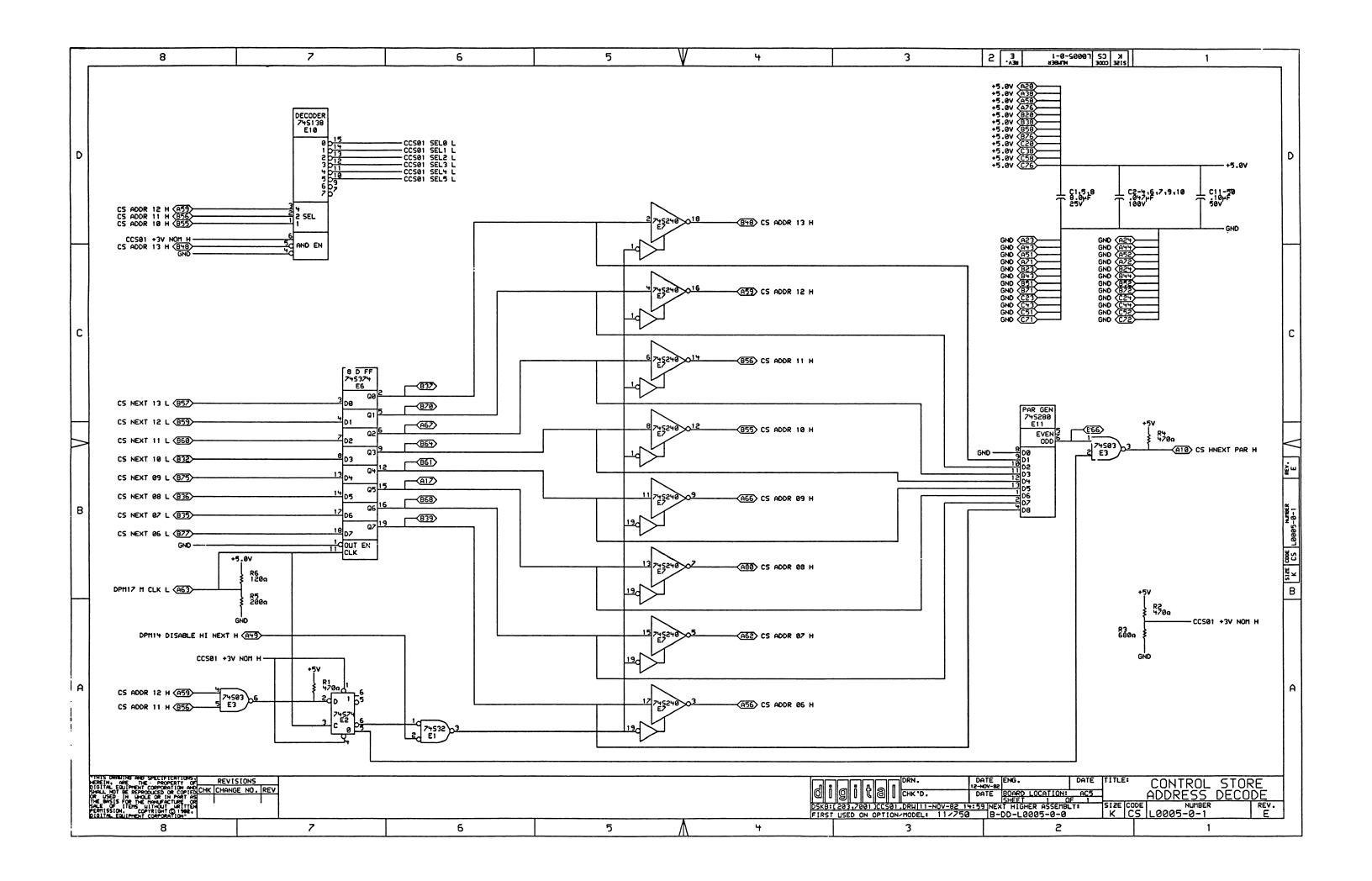
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LINE ITEM DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	RTY PER VARI 00	ATION REFERENCE DESIGNATOR
79 79 80 80	23862F1-00	F1-01	1	E87
81 81	23863F1-00	F1-01	1	E88
82 82	23864F1-00	F1-01	1	E89
83 83	23865F1-00	F1-01	1	E90
84 84	23866F1-00	F1-01	<u> </u>	E91
85 85	23867F1-00 23868F1-00	F1-01 F1-01	1	E92 E93
86 86				E94
87 87	23869F1-00	F1-01	T	
88 88	23740F1-00	F1-01	1	E95 E96
89 89	23870F1-00	F1-01	T	E97
90 90	23741F1-00	F1-01	4	E98
91 91	23871F1-00	F1-01	1	E99
92 92	23872F1-00	F1-01	* T	
93 93	23553F1-00	F1-01	1	E100
94 94	23743F1-00 23873F1-00	F1-01 F1-01	<u> </u>	E101 E102
95 95	23744F1-00	F1-01 F1-01	± •	E103
96 96	23874F1-00 23874F1-00	F1-01 F1-01	1	E103
97 97	23875F1-00	F1-01 F1-01	1	E104 E105
78	23559F1-00	F1-01 F1-01	1	E105
99 99	23745F1-00	F1-01 F1-01	1	E107
100 100	23876F1-00	F1-01	1	E107
101 101	23746F1-00	F1-01 F1-01	4	E108
102 102	23877F1-00	F1-01 F1-01	± •	E110
103 103	23877F1-00 23878F1-00	F1-01 F1-01	1 T	E111
104 104	23565F1-00	F1-01 F1-01	1	E111 E112
105 105	23747F1-00	F1-01 F1-01	1	E112 E113
106 106	23879F1-00	F1-01 F1-01	4	E114
107 107	23748F1-00	F1-01 F1-01	1	E115
108 108	23880F1-00	F1-01 F1-01	1	E113
109 109	23881F1-00	F1-01	1	E117
110 110	23571F1-00	F1-01	1	E118
111 111	23882F1-00	F1-01	1	E119
112 112	23883F1-00	F1-01	1	E120
113 113	23750F1-00	F1-01	1	E121
114 114	23884F1-00	F1-01	- 1	E122
115 115	23885F1-00	F1-01	1	E123
116 116	23577F1-00	F1-01	ī	E124
117 117	23752F1-00	F1-01	- 1	E125
118 118	23886F1-00	F1-01	- 1	E126
119 119	23753F1-00	F1-01		E127
120 120	23887F1-00	F1-01		E128
121 121	23888F1-00	F1-01	- 1	E129
122 122	23754F1-00	F1-01	- 1	E130
123 123	23755F1-00	F1-01	ī	E131
124 124	23889F1-00	F1-01	ī	E132
125 125	23757F1-00	F1-01	ī	E133
126 126	23890F1-00	F1-01	1	E134
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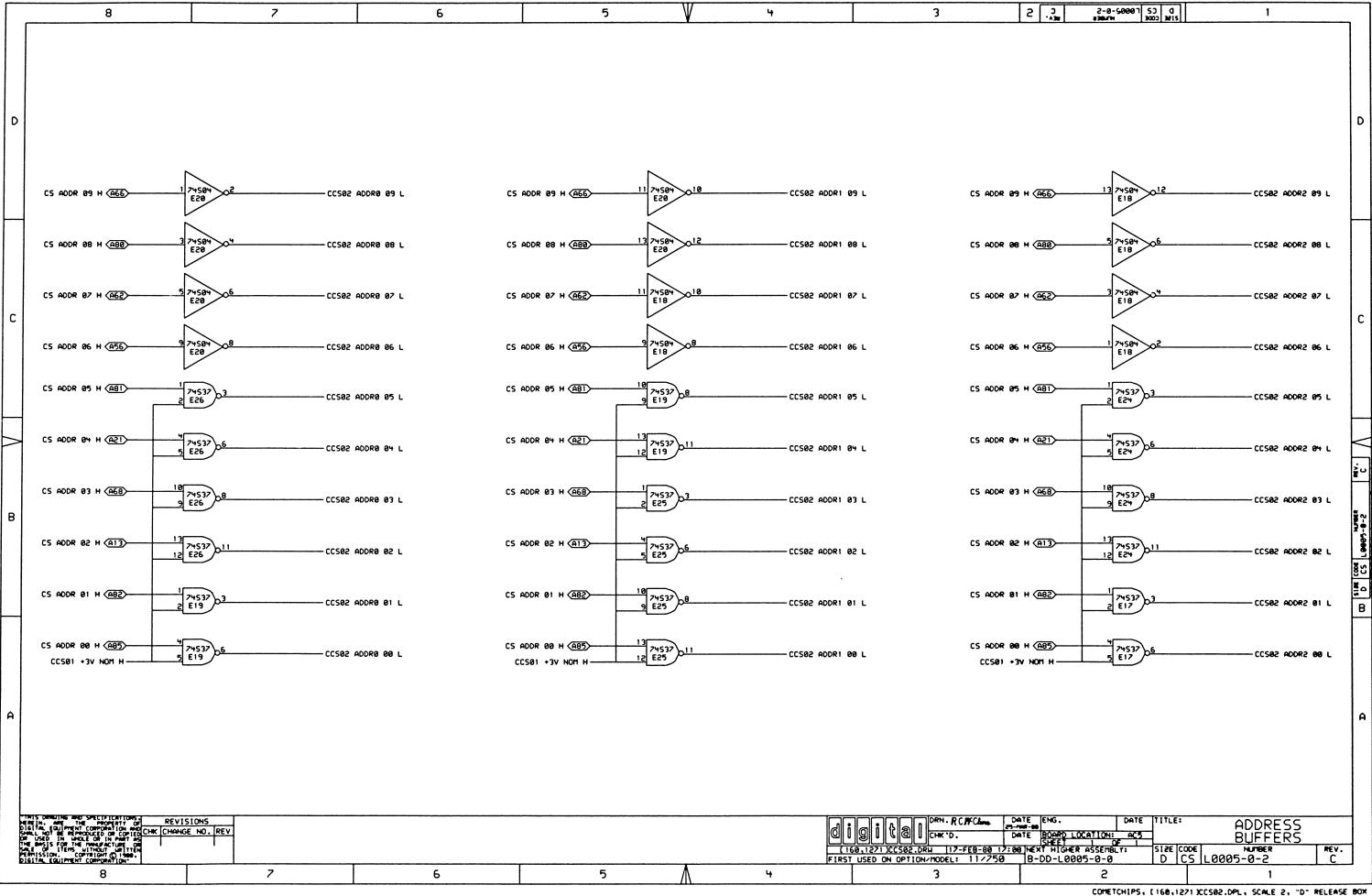
AUTOMATED BY PR	TLST.3L(31)	PARTS LIST	QTY FER VARIATION	SHEET A4 OF A4
LINE ITEM DOCUM	ENT NUMBER PART NUMBER	DESCRIPTION	00 00	REFERENCE DESIGNATOR
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128 128	23892F1-00	F101	1	E136
129 129	23760F1-00	F1-01	1	E137
130 130	23893F1-00	F1-01		E138
131 131	23762F1-00	F1-01	1	E139
132 132	23894F1-00	F1-01		E140
133 133	23895F1-00	F1-01	1	E141
134 134	23896F1-00	F1-01		E142
135 135	23897F1-00	F1-01	1	E143
136 136	23898F1-00	F1-01		E144
137 137	23899F1-00	F1-01	i	E145
138 138	23900F1-00	F1-01	i	E146
139 139 140 140	9000024-01 1912830-00	EYELET, ROLL FLANGE .1210DX .192 LS90 COUNTER, ASYNCH UP, DE		E4
141 141	1811660-01	OSCILLATOR, XTAL 10.000 MHZ	1	E5
142 142	1811660-29	OSCILLATOR, XTAL 18.750 MHZ		E8
143 143	1300247-00	120.0 .25 W 5.0 % CC	1	R5
144 144	1311522-00	200.0 .25 W 5.0 % CC	1	R6
145 145	1214314-00	CONN 2POS JUMPER	ī	

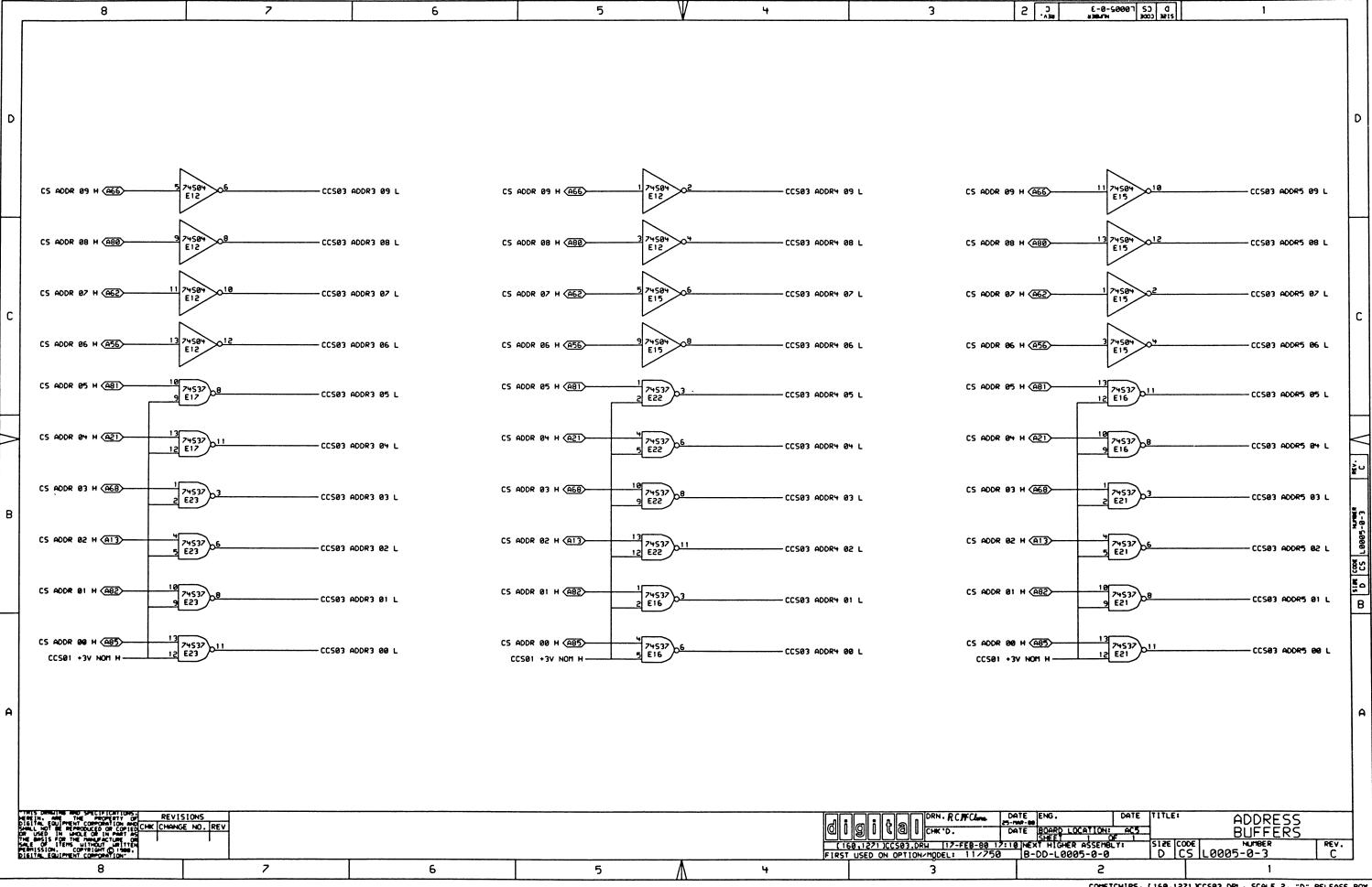
146 NOTE: ITEM #18 IS USED ON J1-J4.

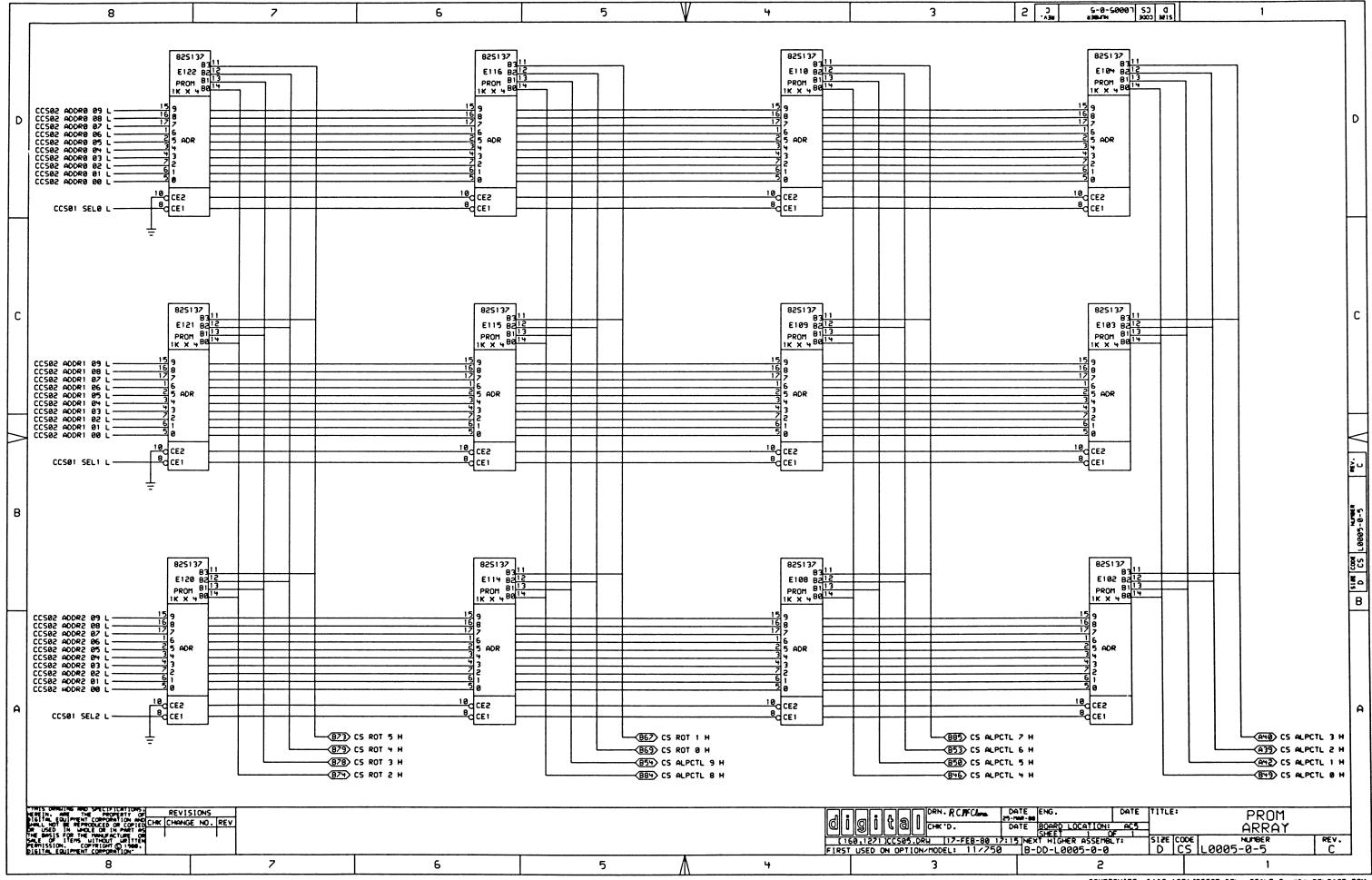
147 NOTE: SOME MODULES WILL HAVE 10-05306 INSTEAD OF 10-12084-01

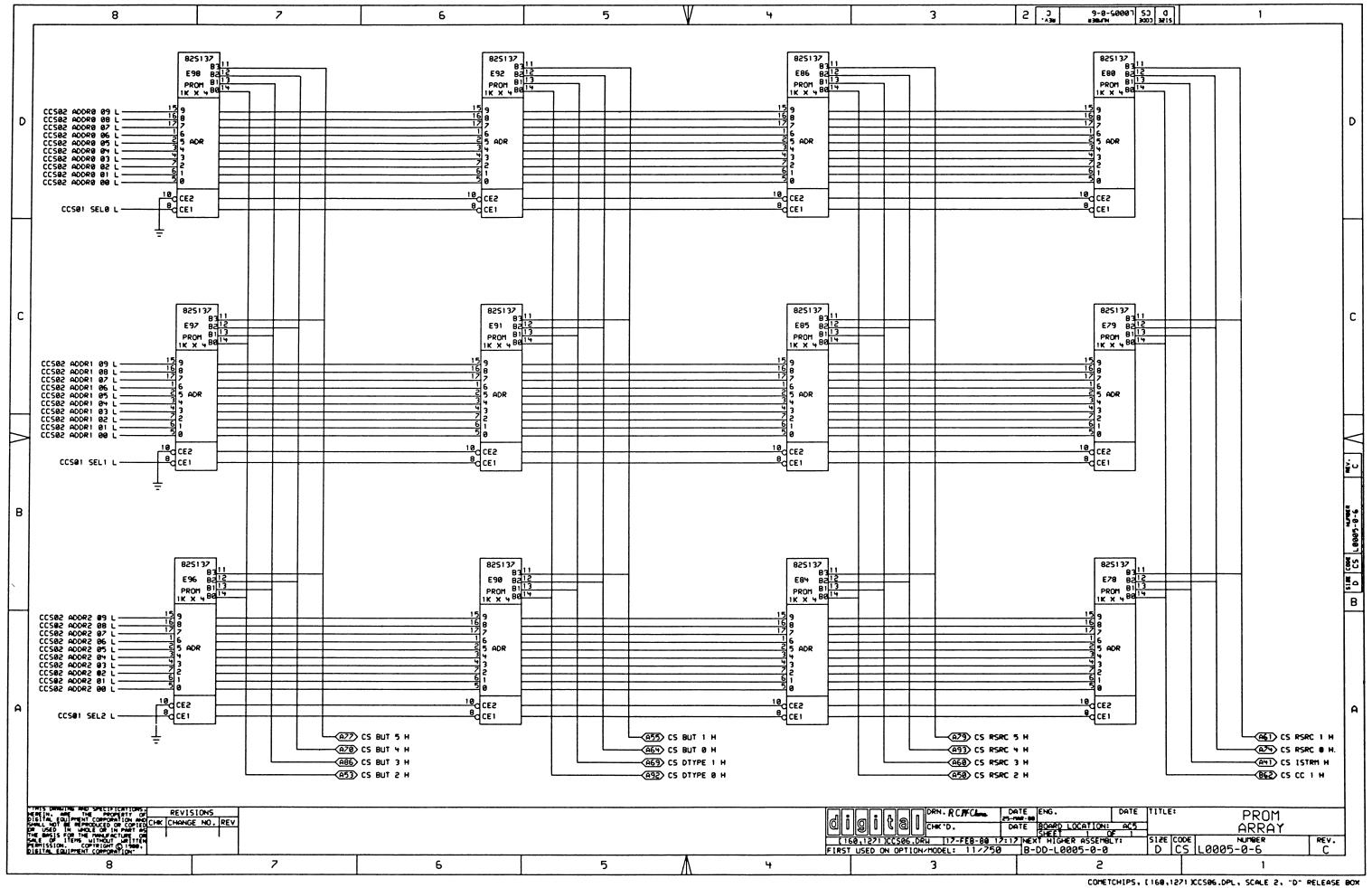
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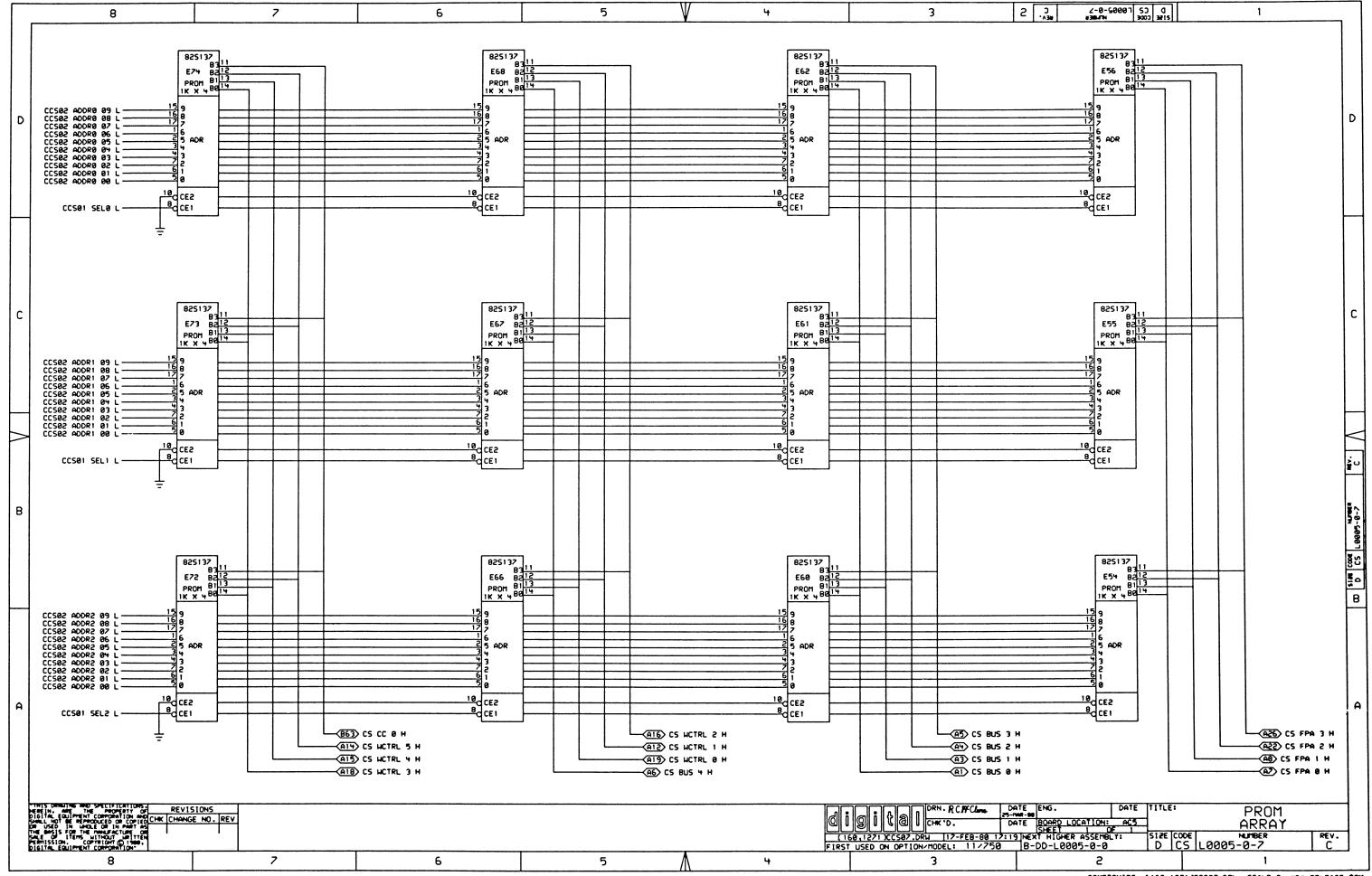


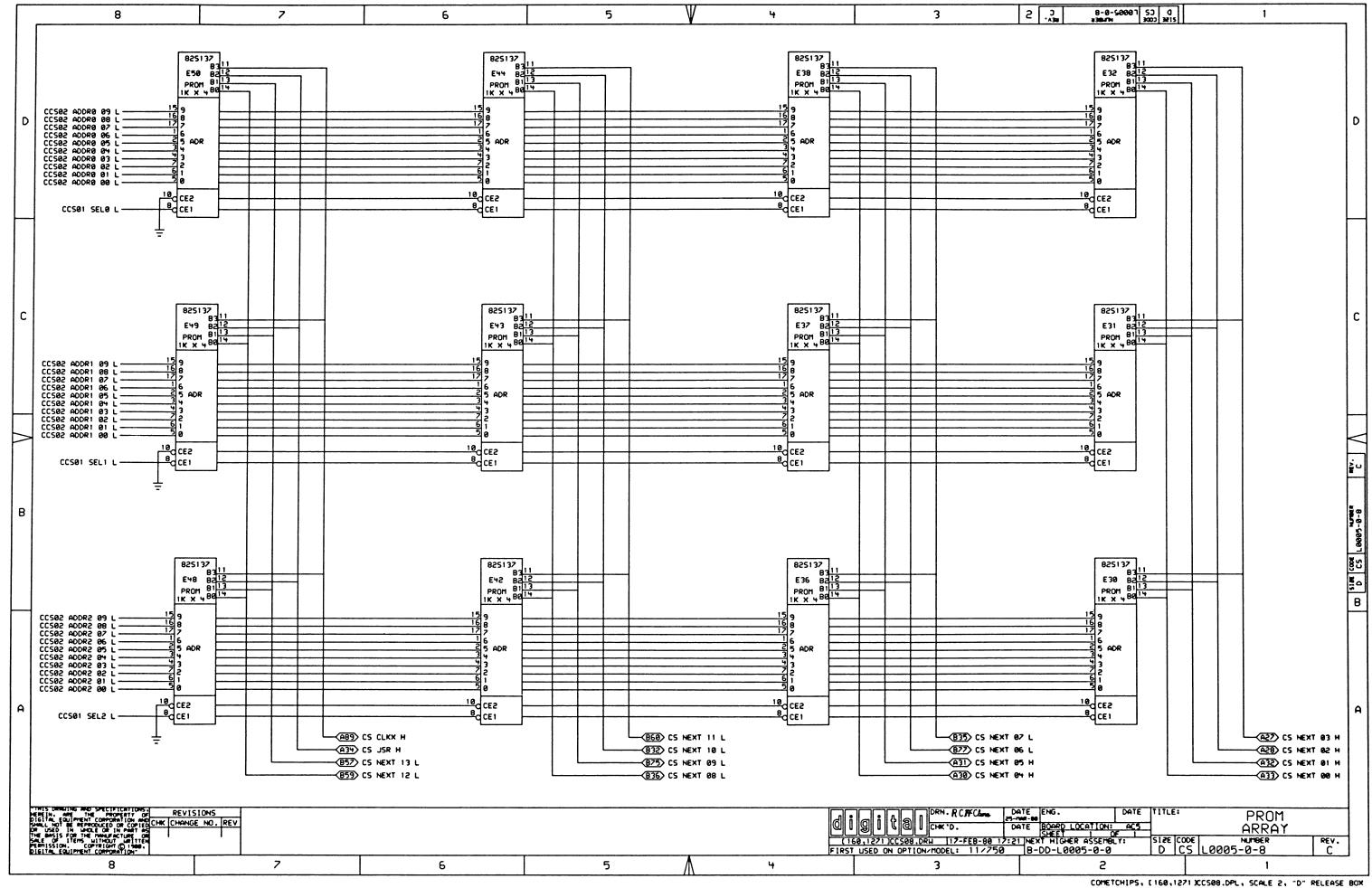


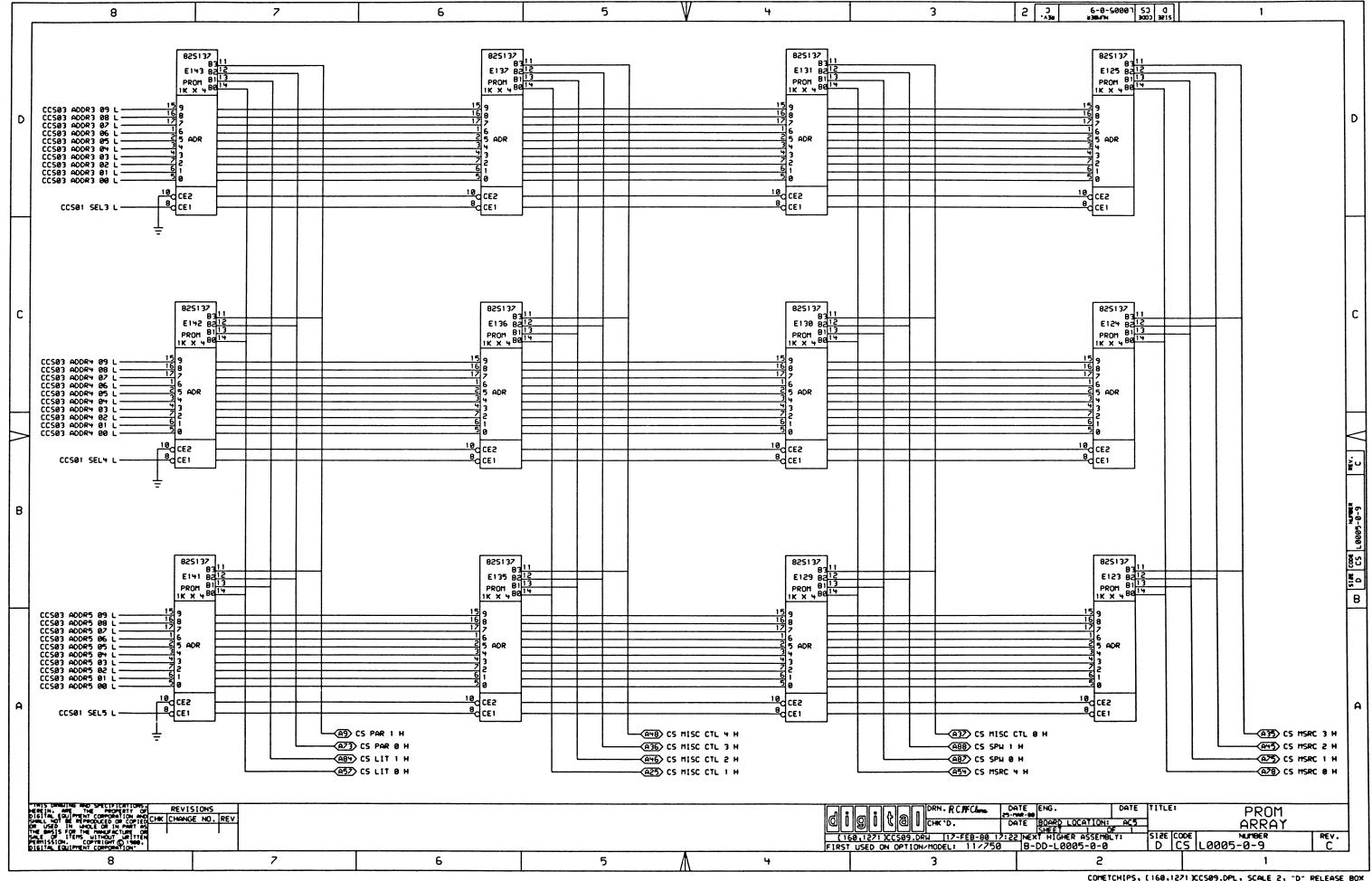


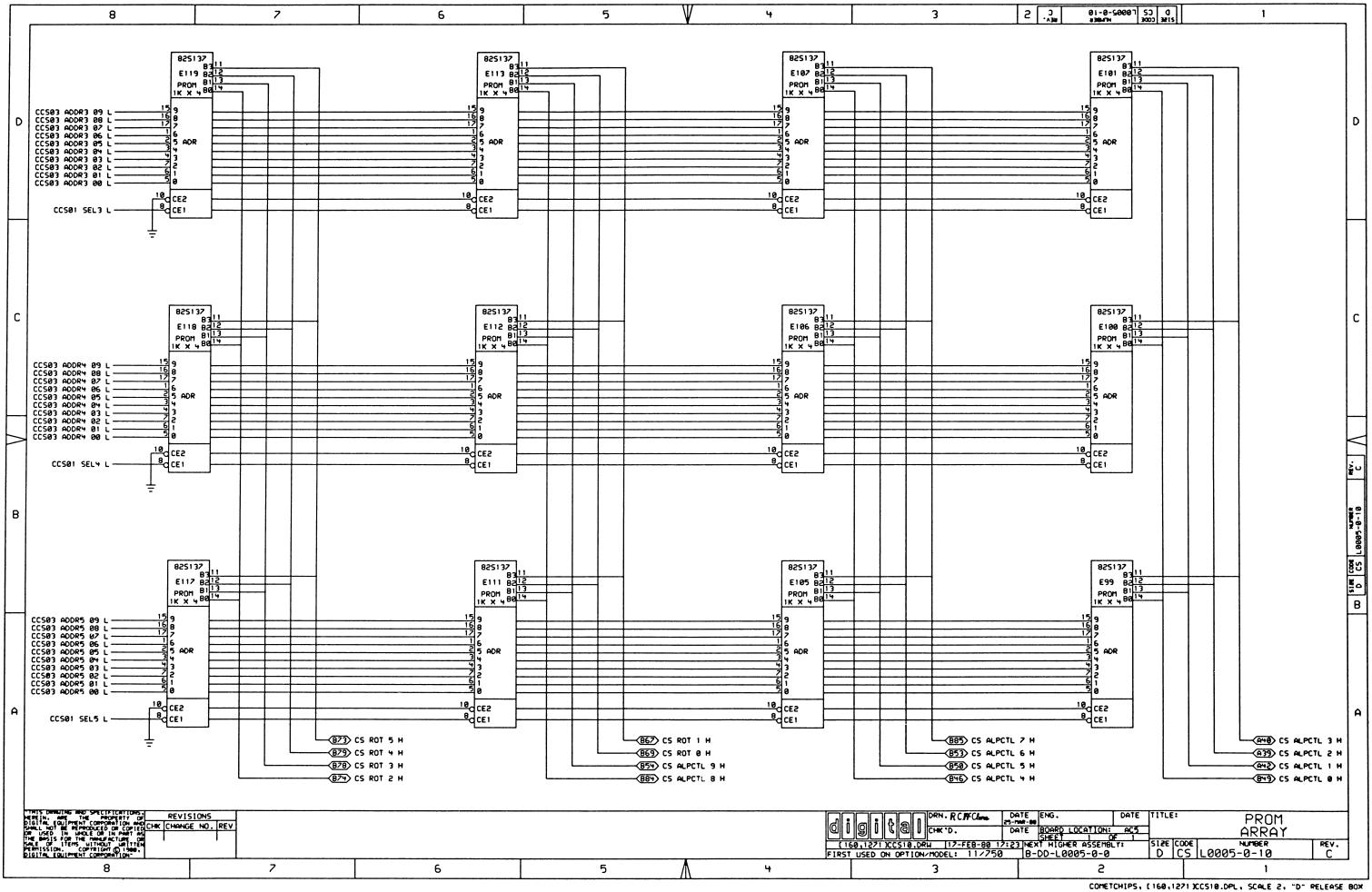


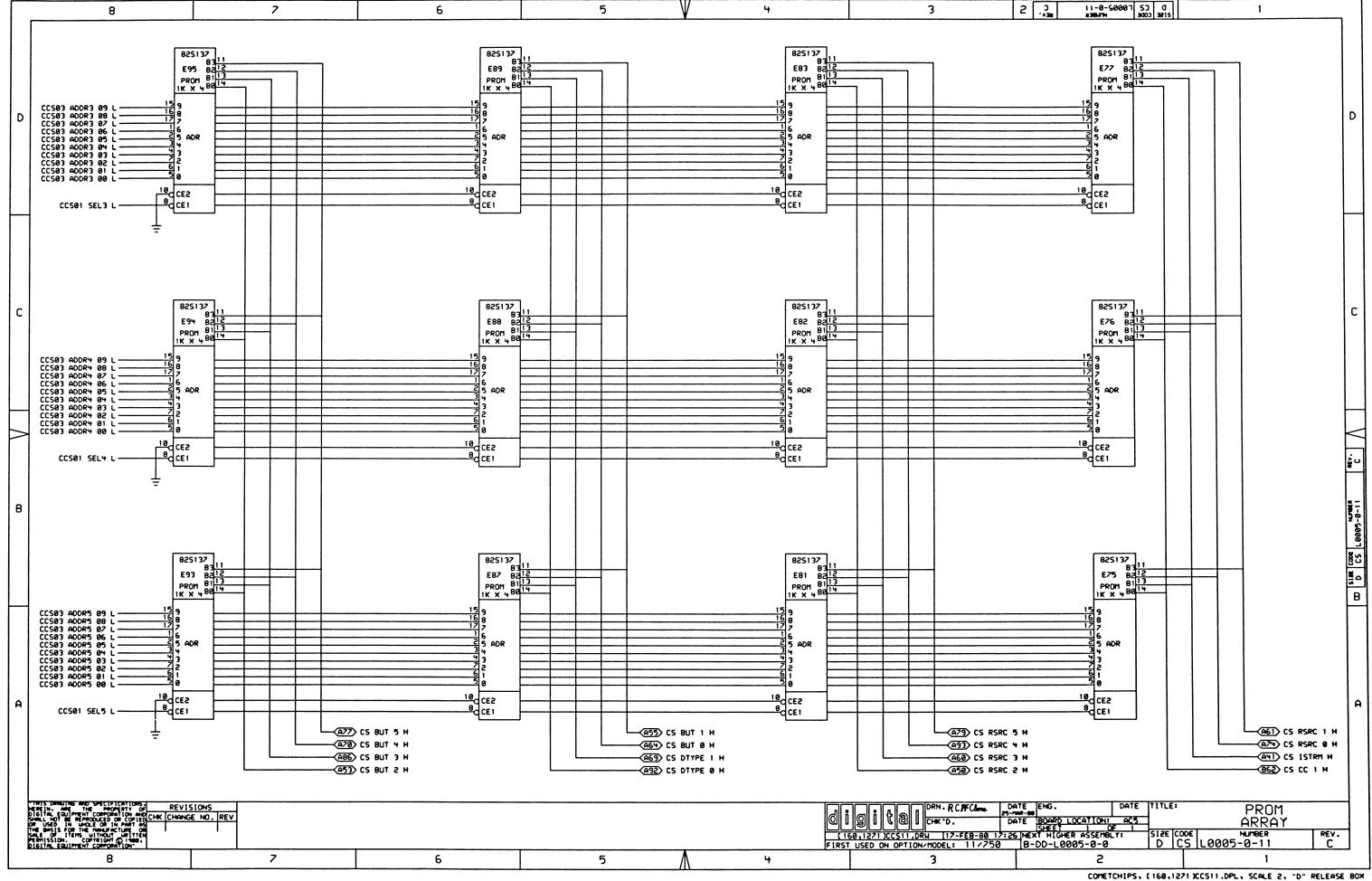


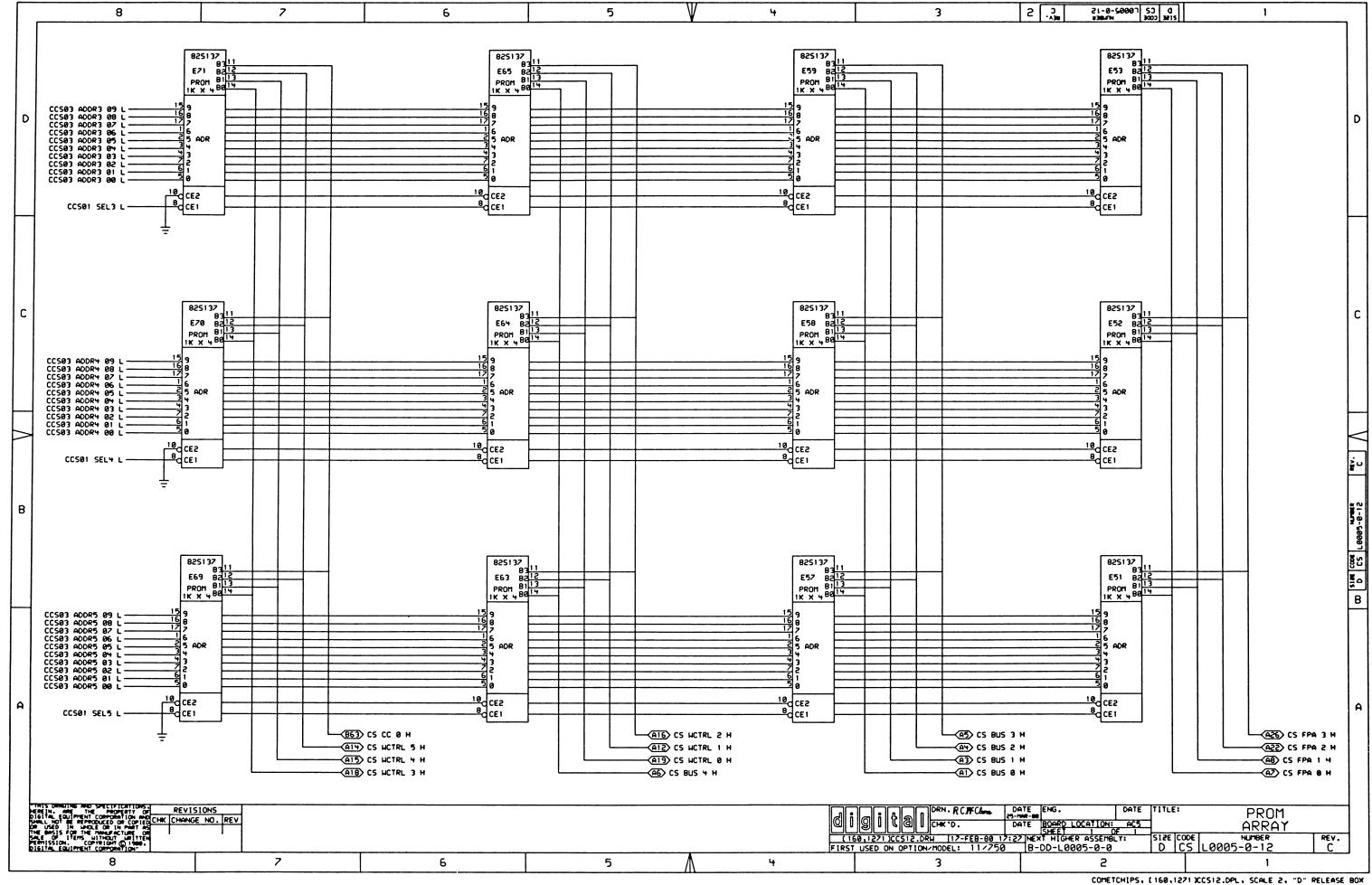


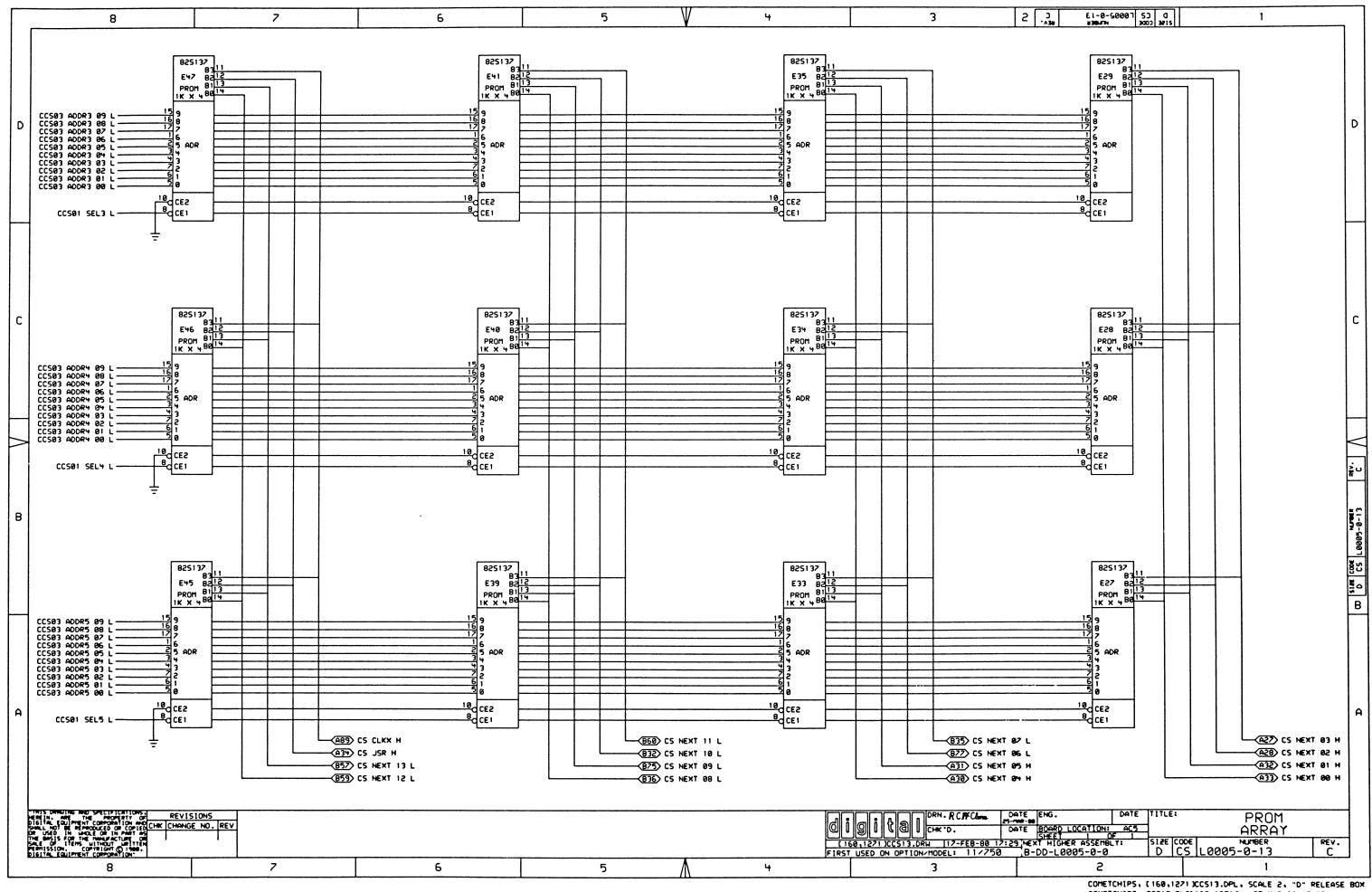


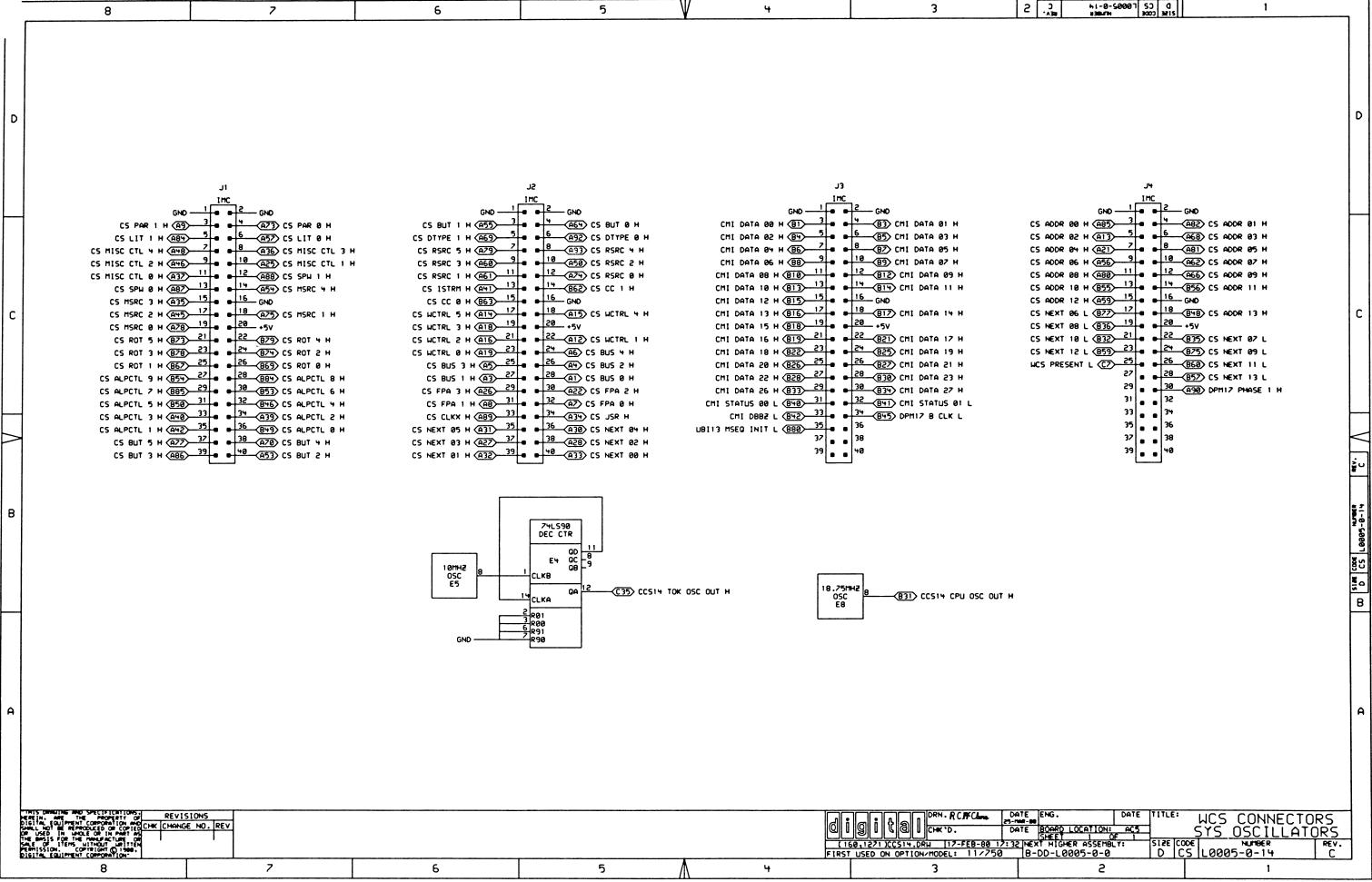












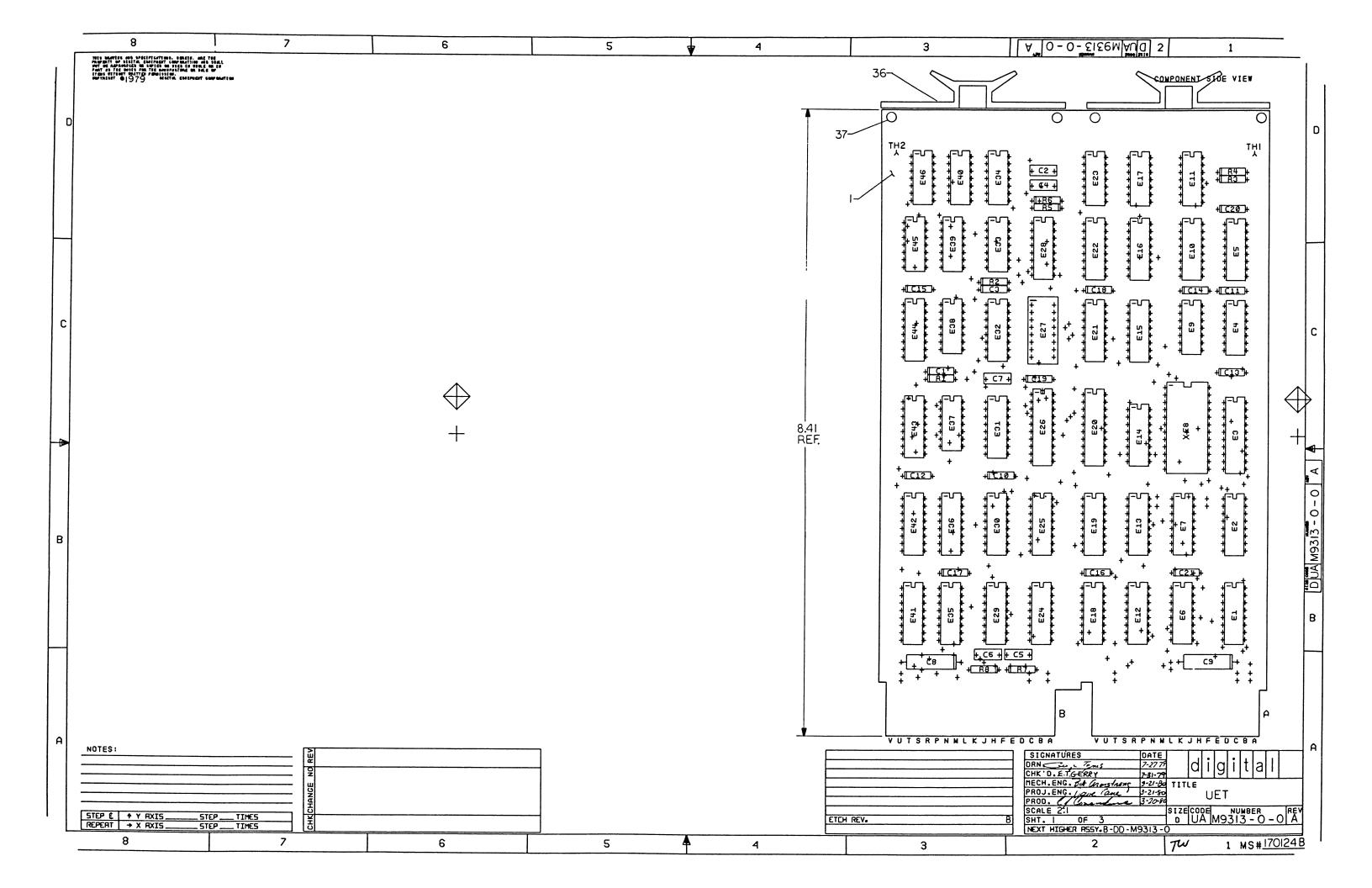
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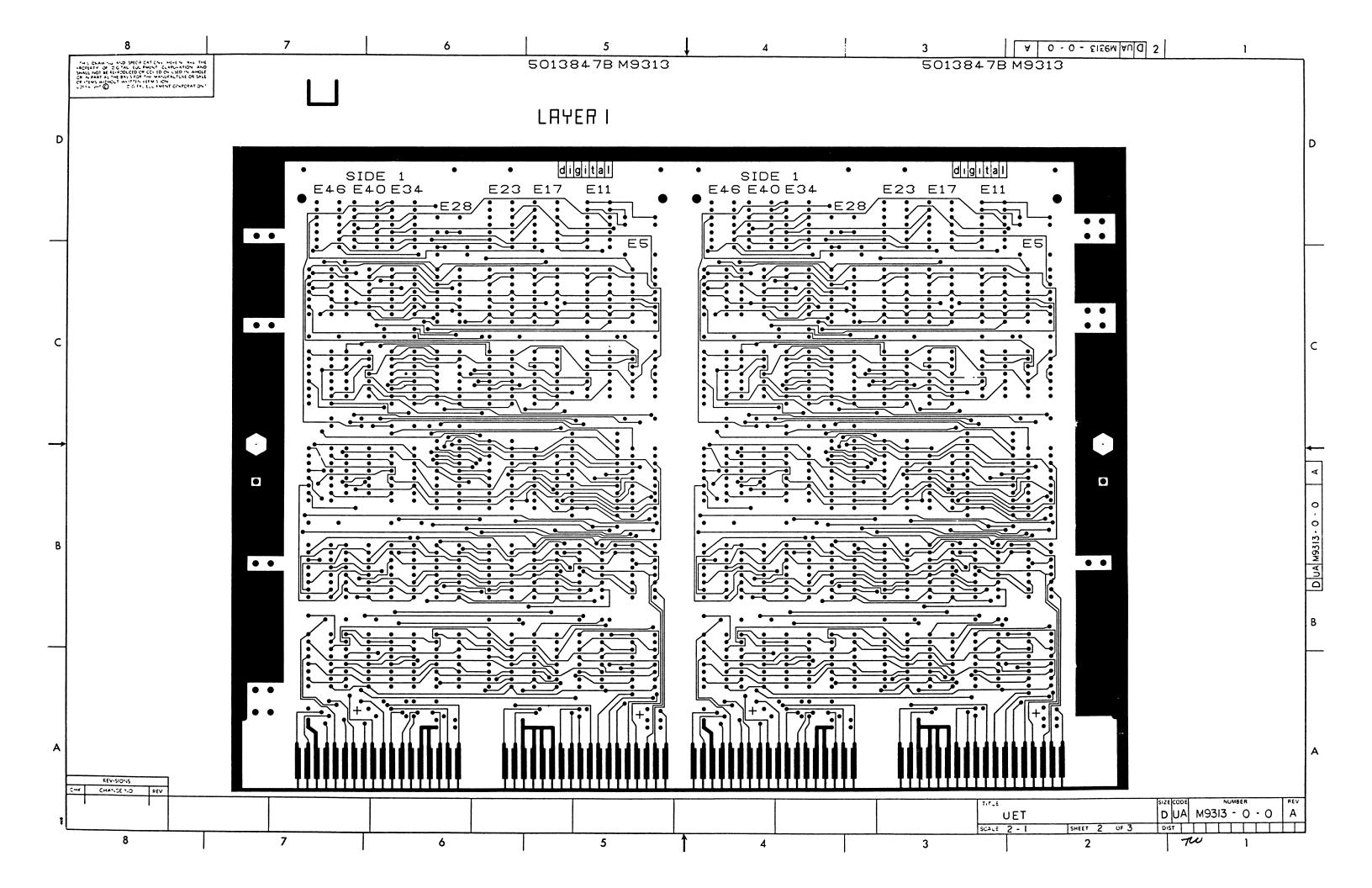
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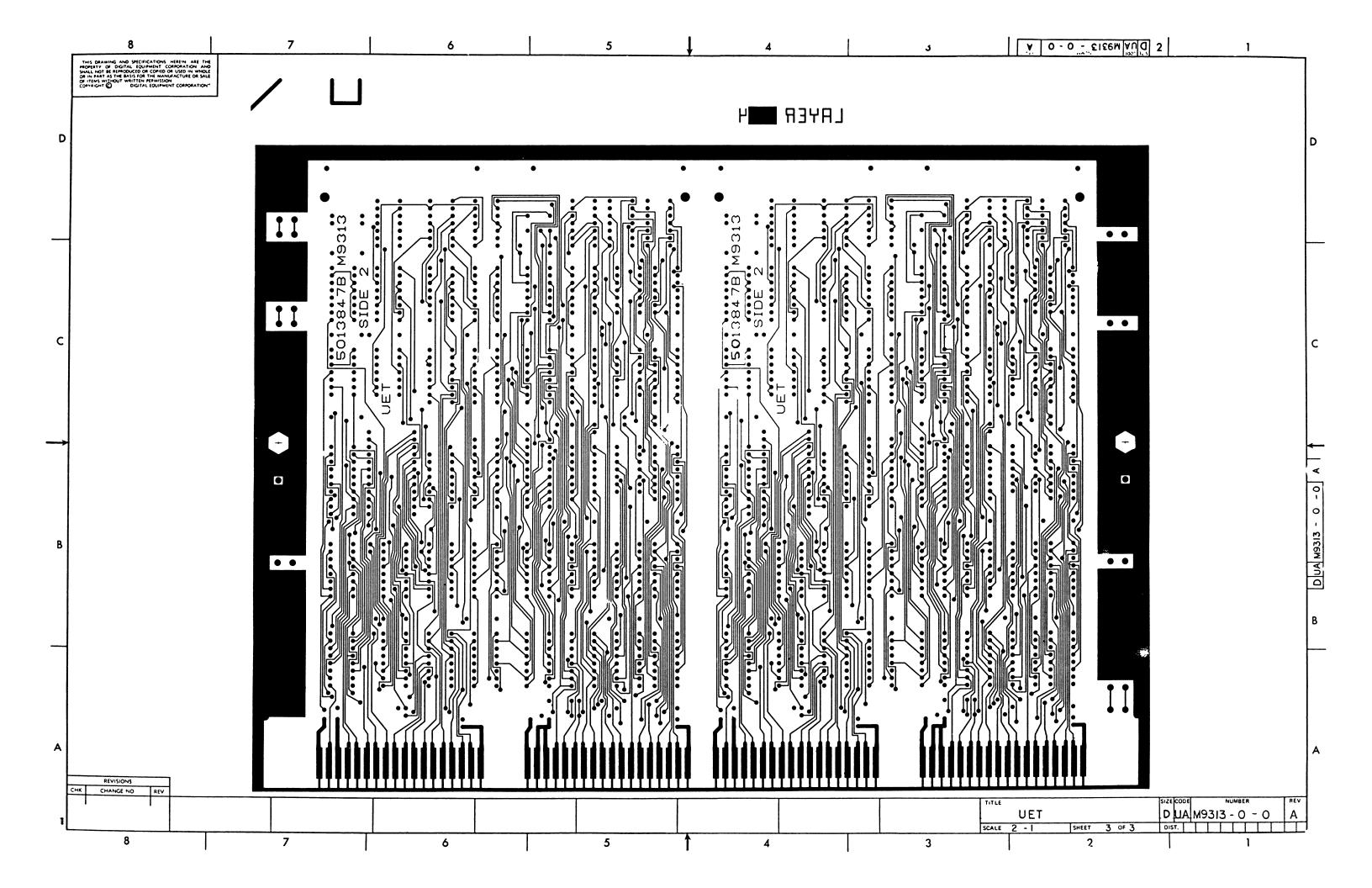
B DD size code REV. NOMBER DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** M9313 MODULE REVISION AB A B 1 B-DD-M9313-0 UET DRAWING DIRECTORY 3 D-UA-M9313-0-0 **UET UNIT ASSEMBLY** K-PL-M9313-0-DBP 2 UET PARTS LIST Α lв D-MD-5013847-0-0 UET DRILL & ETCH DRAWINGS ВВ ETCHED BOARD 5013847 ВВ K-PC-M9313-0-DBC UET P C DESIGN DATA BASE CALDEC K-CS-M9313-0-DBS UET DESIGN DATA BASE SUDS D-CS-M9313-0-1 1 DATA PATH (7:0) D-CS-M9313-0-2 **DATA PATH (15:8)** Α D-CS-M9313-0-3 1 ADDRESS SELECTION Α D-CS-M9313-0-4 UNIBUS CONTROL Α 1 D-CS-M9313-0-5 INTERRUPT CONTROL AA D-CS-M9313-0-6 UNIBUS TERMINATION AA D-CS-M9313-0-7 FORWARD REFERENCE AA D-CS-M9313-0-8 FORWARD REFERENCE **NOTES:** REV. REVISIONS DATE CHG NO. \*CONTROL SOURCE IS THE SUDS DATA BASE TW001 NO CONTROLLED PAPER ORIGINALS EXIST. TITLE USED ON OPTION/MODEL DRN. "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-M. FUNARO PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 11/750 CHK'D UET NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J. CASEY PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. R. ARMSTRONG B DD M9313-0 В COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION PROD. J. CONSIDINE SHEET 1 OF 1

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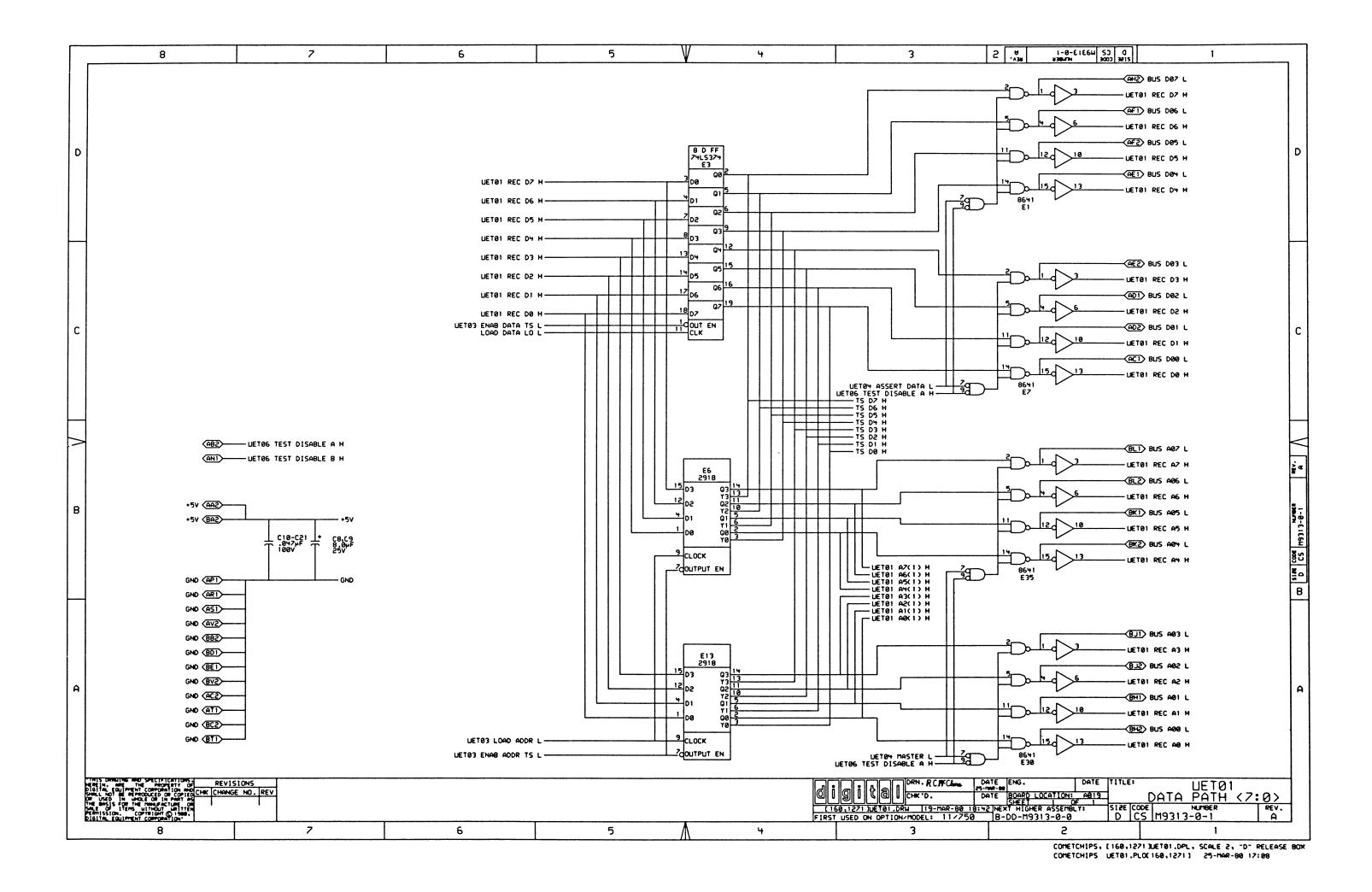


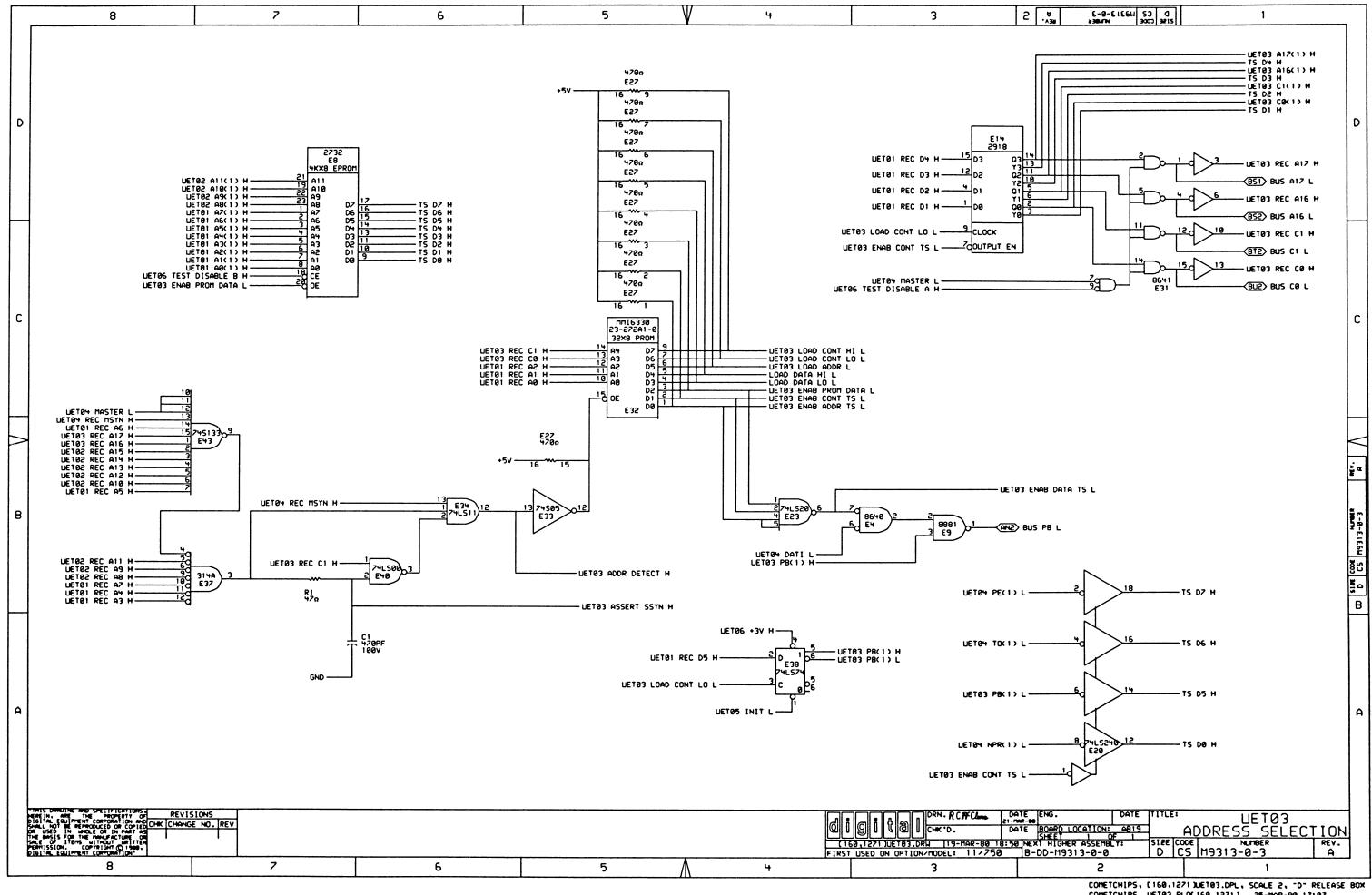
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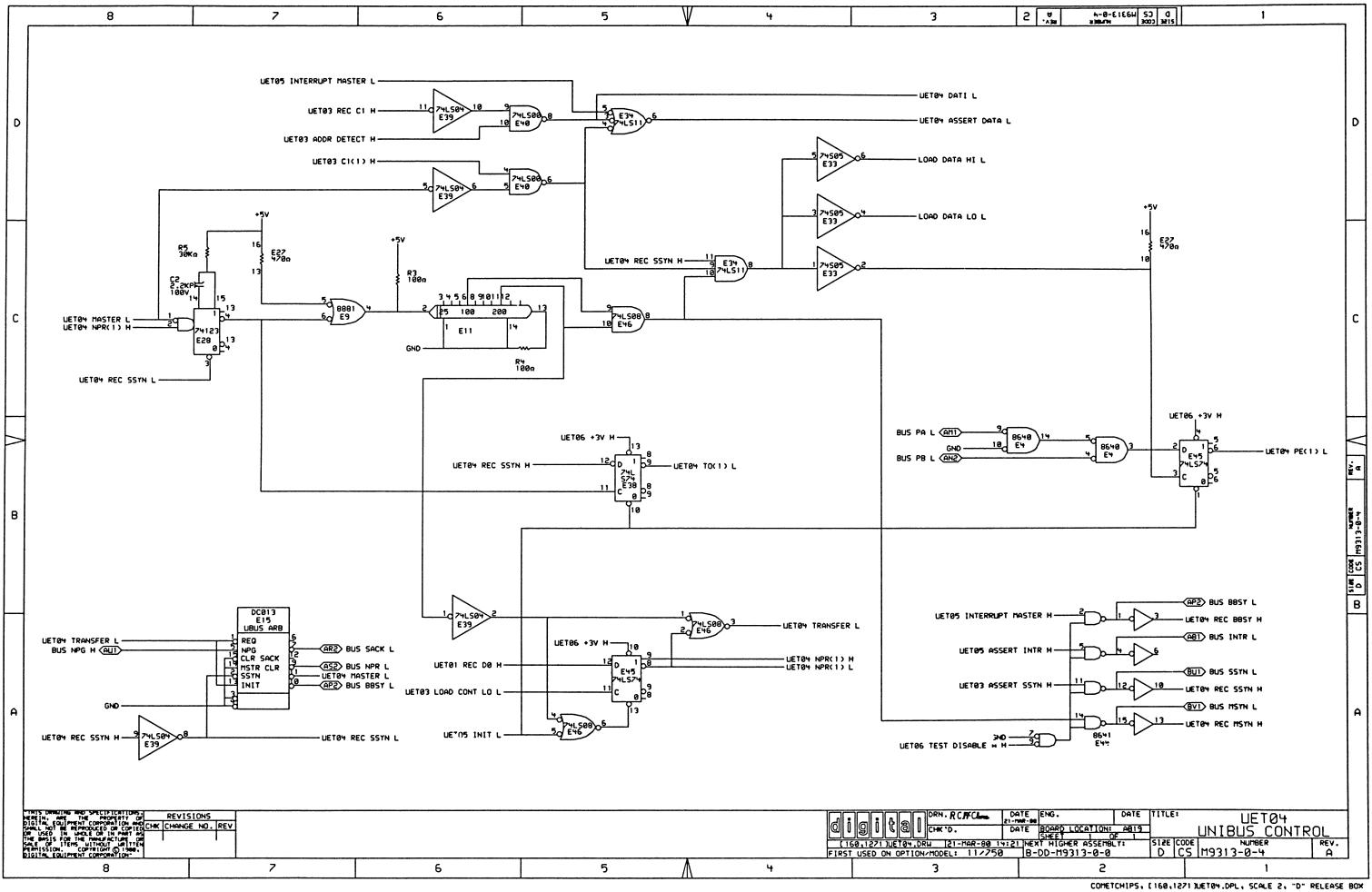
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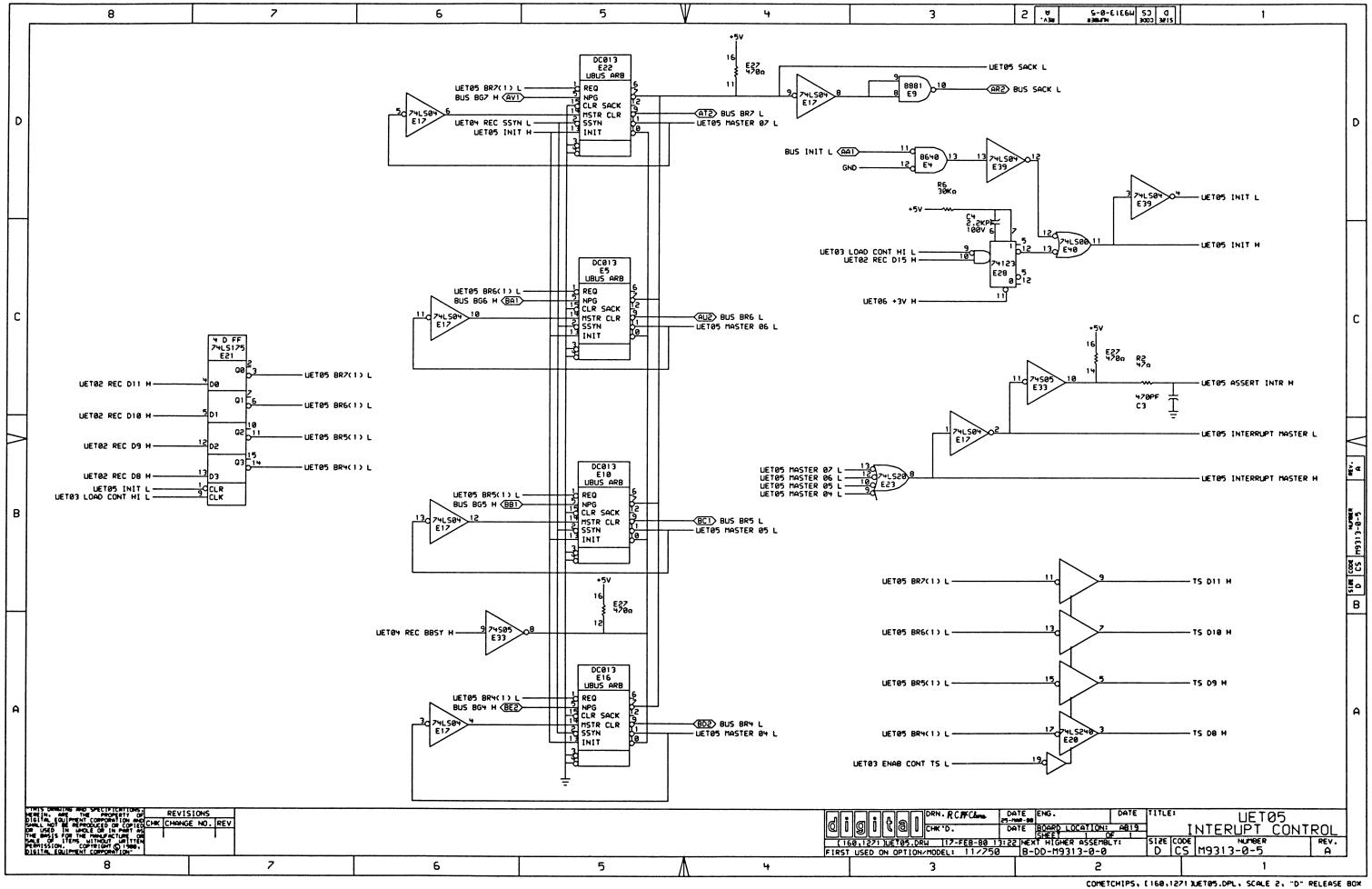
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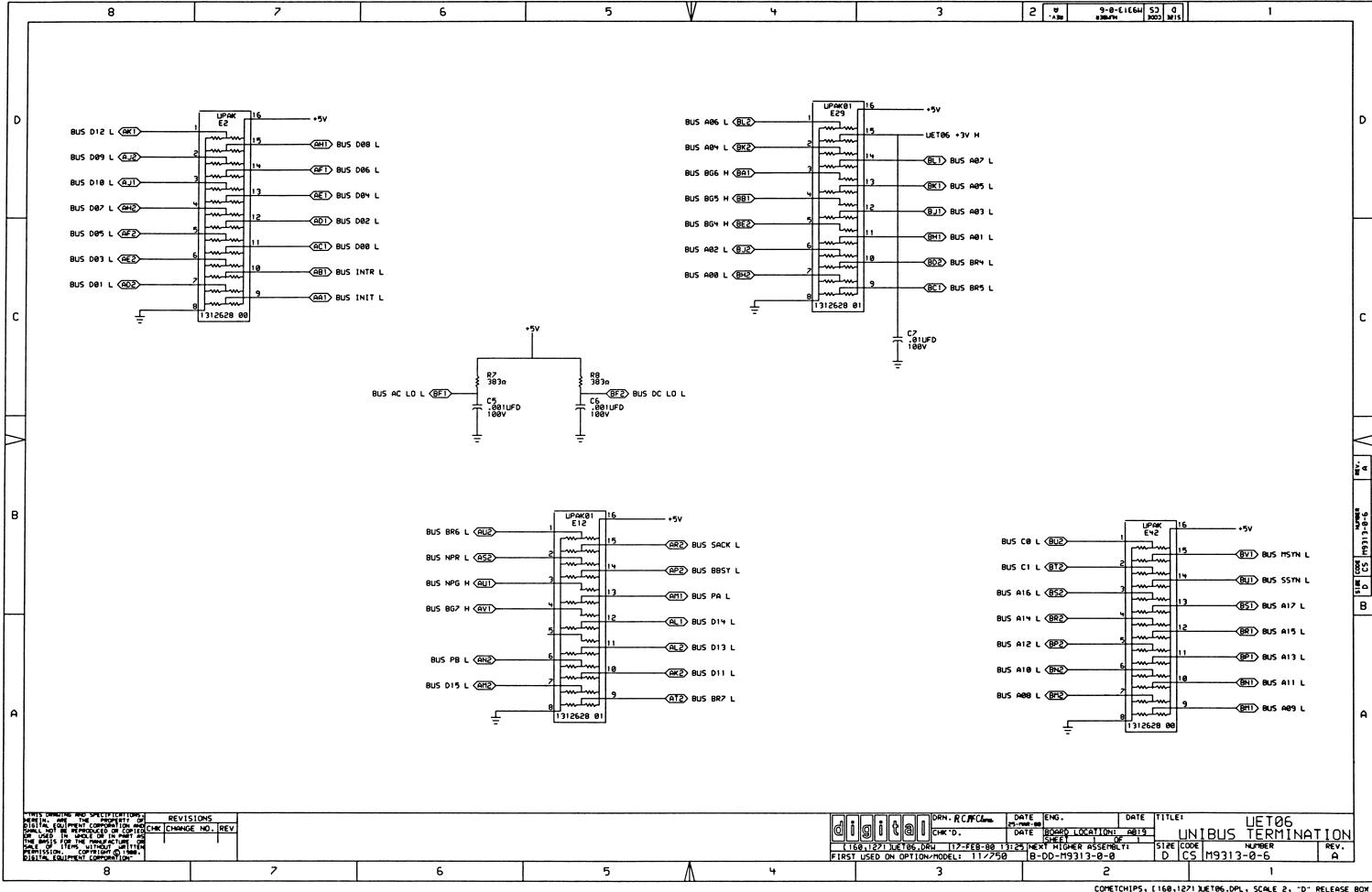
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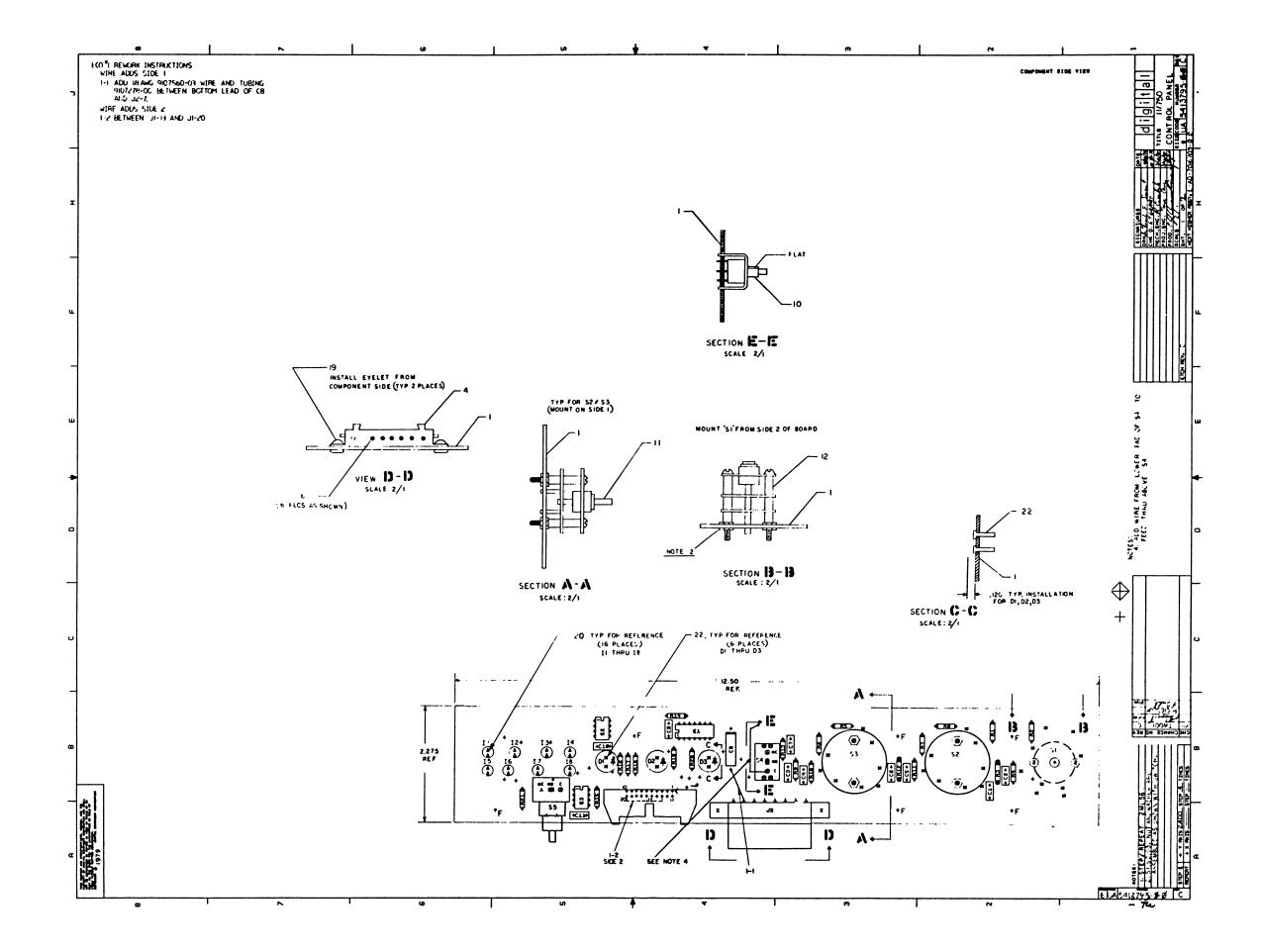
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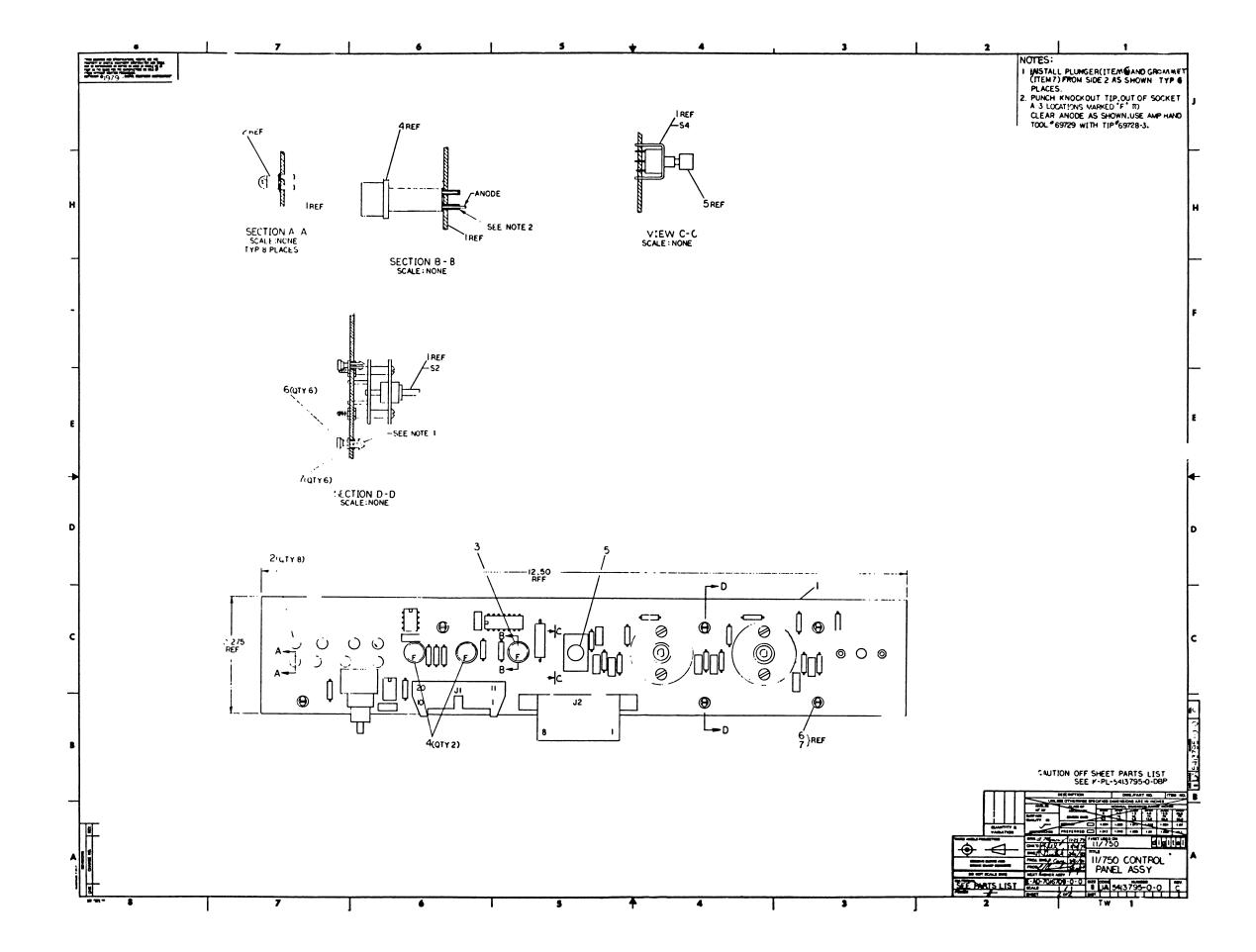
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	DISTING EQUIPMENT COMPONITION	7		6	5	<b>M</b> 4	FIRST USED ON OPTION/MODEL:	11/250  B-DD-M9313-0-0 2	1   C   C   C   C   C   C   C   C   C	J 

B DD size code REV. NUMBER DRAWING NO. OF SHTS. PART NO. **DESCRIPTION REVISIONS** B C D D1 5413795 PART MODULE B C D E B-DD-5413795-0 11/750 CONTROL PANEL DRAWING DIR. 2 E-UA-5413795-0-0 BCCCC 11/750 CONTROL PANEL UNIT ASSEMBLY 2 K-PL-5413795-0-DBP 11/750 CONTROL PANEL PARTS LIST | C | D | E | E-MD-5413794-0-0 11/750 CTRL PANEL DRILL & ETCH DWG 5013794 ETCHED BOARD K-PC-5413795-0-DBG 11/750 CTRL PANEL DESIGN DATA BASE E-EC-5413794-0-0 2 11/750 CTRL PANEL ETCH CUT DRAWING D-CS-5413795-0-1 11/750 CTRL PANEL CIRCUIT SCHEMATIC **NOTES:** REV. REVISIONS CHG NO. ALL DOCUMENTATION WAS RELEASED AT REVISION 'B' TW001
TW002
TW003 9-80 11-81 5-83 USED ON OPTION/MODEL DRN. TITLE 'THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-J. CASEY 11/750 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 11/750 CONTROL PANEL CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J. CASEY PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF NUMBER REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. R. CIESŁUK B DD Ε 5413795-0 COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION PROD. J. CONSIDINE SHEET 1 OF 1

0-96/8149

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AUTOMATED BY PRTLST.4Q(50)		PARTS LIST	QTY PER VARI	CATION	SHEET	A1 OF A2
LINE ITEM DOCUMENT NUMBER	PART NUMBER D	DESCRIPTION	00		ENCE DESIGNATOR	
1	1001610-00 1012084-01 1209340-00 1209456-01 1209941-06 1211068-00 1212749-00 1212749-01 1216167-00 1216181-00 1216182-00 1300229-00 1300365-00 1300365-00 1300365-00 13011-00 1910406-00 9000024-01 9007812-00 1216523-00 1211449-01 9009966-00 1209941-04 1209941-03 1216524-00 9107560-03	SW,ROT 2P 5POS 28VDC/O.1A 100.0 .25 W 5.0 \$ C 330.0 .25 W 5.0 \$ C 1.0 K .25 W 5.0 \$ C 2.40 K .20 K	EL 1 HSG 1 70D 6 90D 1 8 2 1 .4A 1 F 6 F 7 NPU 1 AL. 2 192 2 C M 16 1A 1 NOC 6	C1-C7 C8 J2 J1 I1-I8 D2.D3 D1 S4 S2.S3 S1 R1.R2 R19.R1 R13.R4 E1 E2.E3	,R5-R8 20 15-R18,R21 ,R9-R12,R14	
!!	C PART NO: 5413795	! !DRN: P.TELLIER	! !DATE: 17-MAY-83	· · · · · · ·	! I ! G ! I ! T	I A I I
ENG! ECO NUMBER !REV !SECT		!	!	TITCE-	PARTS LĪST	.!!;
!! INITIAL	TON.VARIATION INDEX	CHK'D: F.GAROFALO	DATE: 17-MAY-83	!	CONTROL PANEL	!
!SB !5413795-TW003	:]	DES.ENG: R.CIESLUK	DATE: 17-MAY-83			i i
! ! [0 ! ! [E	j	!RESP.ENG.: D.CANE	DATE: 17-MAY-83	!	DOCUMENT NUMBER	i
! ! [H	וַ			SIZETCODE	NUMBER	T. REV
:	]	MFG.ENG.: K.O'BRIEN	DATE: 17-MAY-83	K PL	5413795-0-DBP	E
[M	ij		!TOP DOCUMENT NUM !B-DD-5413795-0-0		FILE NAME: Z1255E.PLS	ĒDĪT ₽ 24
"THIS DRAWING AND SPECIF OR COPIED OR USED IN WH	OLE OR IN PART AS T	RE THE PROPERTY OF DIGITAL EQI THE BASIS FOR THE MANUFACTURE HT (C) 1983. DIGITAL EQUIPMEN	OR SALE OF ITEMS	ÖN ÄND SHAL WITHOUT WE	ITNOT BETREPRODU RITTEN PERMISSION	ICED .

AUTOMATED BY PRTLST.4Q(50)

PARTS LIST

SHEET A2 OF A2

LINE ITEM DOCUMENT NUMBER

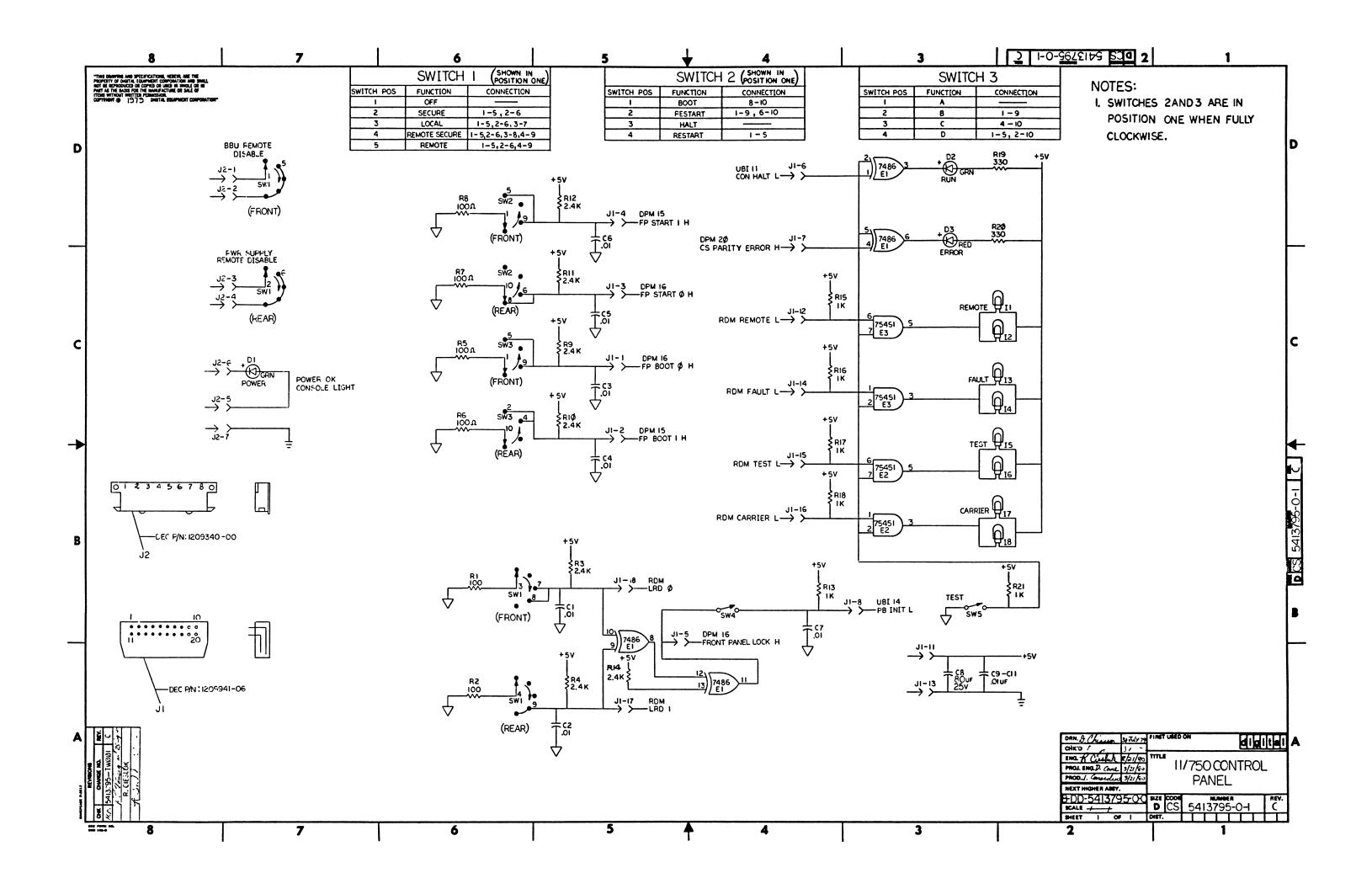
PART NUMBER

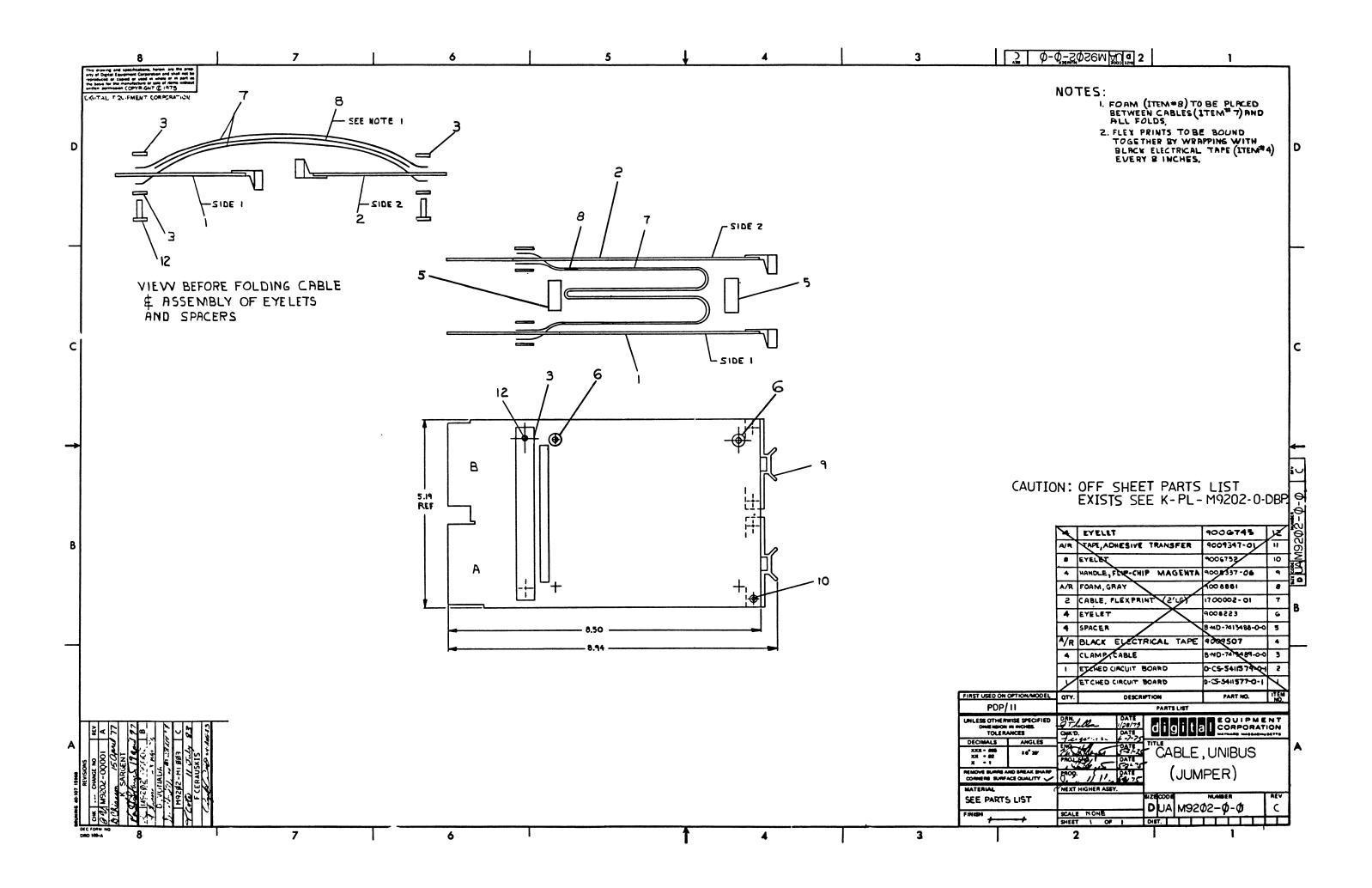
DESCRIPTION

QTY PER VARIATION REFERENCE DESIGNATOR

30 NOTE: SOME MODULES WILL HAVE 10-05306 INSTEAD OF 1012084-01

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST MADE BY/- CHECKED /, /// // SECTION									?						
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ITEM NO.	DWG NO./PART NO. CL BASIC VAR.		DESCRIPTION							UNIT		UNIT QUANT		QUANTITY ISSUED	
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			-										1		
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			SHEET 1	OF 1	DIST	. 33	44	34	435	٣ -					

938MUN 1-0-7270 B C2 THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION N S drn. *BUTLER* DATE //-/9-69 TRANSISTOR & DIODE CONVERSION CHART GRANT CONTINUITY G727 DEC EIA DEC EIA DATE G-FCB70 DATE 1/28/70 DATE EQUIPMENT SIZE CODE CORPORATION B CS NUMBER REV. G727-0-I CORPORATION MAYNARD, MASSACHUSETTS PRINTED CIRCUIT REV. DEC FORM NO. DRB 102

